SCHALTBILD

DENON

AVR3806

SCHEMATIC DIAGRAMS (1/31)

1 2 3 4 5 6

TO 1U-3700-1(2/2)

TO 1U-3705(10/11) DIGITAL UNIT

CX081 8P-PH

SDA GND SCL GND +5V VDRST VERST TERST

OSD_STB OSD_CLK OSD_DATA OSD_RST SYNC.DET COMPSDET Z1SMONIDET Z1SSIG.DET. Z1VSIG.DET. VEXPCLK VEXPD VEXPSTB VEXPOE MASTER5V SW5V 232C5V

REMOCON TXDM0232I RXDM12320 TRIG2 TRIG1

MUTE5V

.ADMUTE .PREZ3MUTE .PREZ2MUTE .PRESBMUTE .PRESMUTE .PRESWMUTE .PRECMUTE .PREFMUTE

LIMIT A+BLIMIT E.VOL_STBB E.VOL_STBA E.VOL_DATA E.VOL_CLK FCLK FDATA FSTB1 FSTB2 MICDET ASIGDET

MGND SW5V

RDSCE TURDSDATA TURDSCLK RDSDOUT TUDOUT TUSTB TUNED STEREO RDSRST T.MUTE

XMCOMMAND

REQSOMI

POWERKEY POWER EPOWER 232POWER REDLED GRNLED

H/PDET FL_RST FL_CE2 FL_CE1 FL_DATA FL_CLK VSELA VSELB ISELA ISELB KEY3 KEY2 KEY1 ASIGDET

IC506
M30626****
(MAIN)

P07/D7 P06/D6 P05/D5 P04/D4 P03/D3 P02/D2 P01/D1 P00/D0 P107/AN7 P106/AN6 P105/AN5 P104/AN4 P103/AN3 P102/AN2 P101/AN1 AVSS P100/AN0 VREF AVCC P97/SIM4

P96/SOUT4 P95/CLK4 P94/TB4 P93/TB3 P92/SOUT3 P91/SIN3 P90/CLK3 BYTE CNVSS P87 P86 RESET XOUT VSS(GND) XIN VCC P85/NMI P84/INT2 P83/INT1 P82/INT0 P81 P80 P77 P76 P75 P74 P73/CTS2 P72/CLK2 P71/RXD2 P70/TXD2

P10/D8 P11/D9 P12/D10 P13/D11 P14/D12 P15/INT3 P16/INT4 P17/INT5 P20 P21 P22 P23 P24 P25 P26 P27 VSS(GND) P30 VCC P31 P32 P33 P34 P35 P36 P37 P40 P41 P42 P43

P44 P45 P46 P47 P50/CE P51 P52 P53 P54 P55/EPM P56 P57 P60/CTS0 P61/CLK0 P62/RXD0 P63/TXD0 P64/CTS1 P65/CLK1 P66/RXD1 P67/TXD1

R590 10K

R502 100 R531 100 R532 100 R533 100

R505 100 R506 100

RDSDOUT TUDOUT TUSTB TUNED TERST STEREO

R582 100 FDATA
R583 100 FCLK
MUTEPOWER
R589 100 E.VOL_STBB
R658 100 E.VOL_STBA
R659 100 E.VOL_DATA
R660 100 E.VOL_CLK
R661 100 E_RXDMIEO
R662 100 E_TXDMOEI
R563 0 VSDA
R564 0 VSCL
R565 100
R566 100

C570 100/25(RE3)
C571 CK0.1
R591 10K
MICDET
TR505 KRC104S
R593 OPEN_R

VSDA VSCL VDRST VERST TERST

REMOCON TXDM0232I RXDM12320 TRIG2 TRIG1

OSD_STB OSD_CLK OSD_DATA OSD_RST SYNC.DET COMPSDET Z1SMONIDET Z1SSIG.DET. Z1VSIG.DET. VEXPCLK VEXPD VEXPSTB VEXPOE

R571 OPEN_R R572 0

C501 CK0.1 R501 100

	R571	R572
USA CANADA	—	0
EUROPE ASIA	0	—
TAIWAN R.O.C. CHINE. KOREA	4.7K	4.7K
JAPAN	10K	20K

E_SPIMIEO
E_SPIMOEI R507 100
E_SPICLK R508 100
E_SPICS R520 100

R529 100 R528 100 R530 100 R568 100 R573 100 R509 100 R510 100 R540 100 R542 10K

R578 OPEN_R C505 CK0.1 X501 X'TAL(12MHZ)
C547 12P C548 12P
R653 10K

ACKSUB MOSI SOMI CLKMO RSTSUB REQXM RXDMIXMO TXDMOXMI

R698 4.7K R577 4.7K R599 OPEN_R
C567 33/50(RE3) C564 CK0.1
R511 47K R512 OPEN_R
TP501 OPEN

C508 10/50(RE3) C509 CK0.01
IC504 TC4094BF
R513 10K

AEXPOE AEXPSTB AEXPD AEXPCLK

RESET P.DOWN REMOCON FSTB1 FSTB2 AEXPOE AEXPSTB AEXPD AEXPCLK

E_RESET EMODE

R543 100 R535 100 R636 100 R637 100 R638 100 R639 33 R640 33 R642 100 R503 100 R504 100

R534 OPEN_R R635 10K R637 10K R635 10K

R541 47K R597 1K R596 220K R594 4.7K R595 10K R527 100 R539 10K R504 CK1000P R506 OPEN_C R581 OPEN_R R584 1K R580 10K R585 1K R592 4.7K C574 CK0.01 C575 4.7/50(RE3) C561 CK0.1 C555 CK0.01 C551 CK1000P C507 100000/5.5 C546 220/6.3 C545 CK1000P C541 OPEN_C R576 100 R575 10K R561 47K R579 1(NB) R588 1(NB)

TR507 KRA104S TR508 KRC104S TR524 KTC3875S(GR) TR523 KRC104S TR521 KRC104S TR520 KRA104S TR519 KRC104S

D503 KDS160 D504 HZS3C-2 D505 KDS160 D502 1SR35-400A D501 1SR35-400A

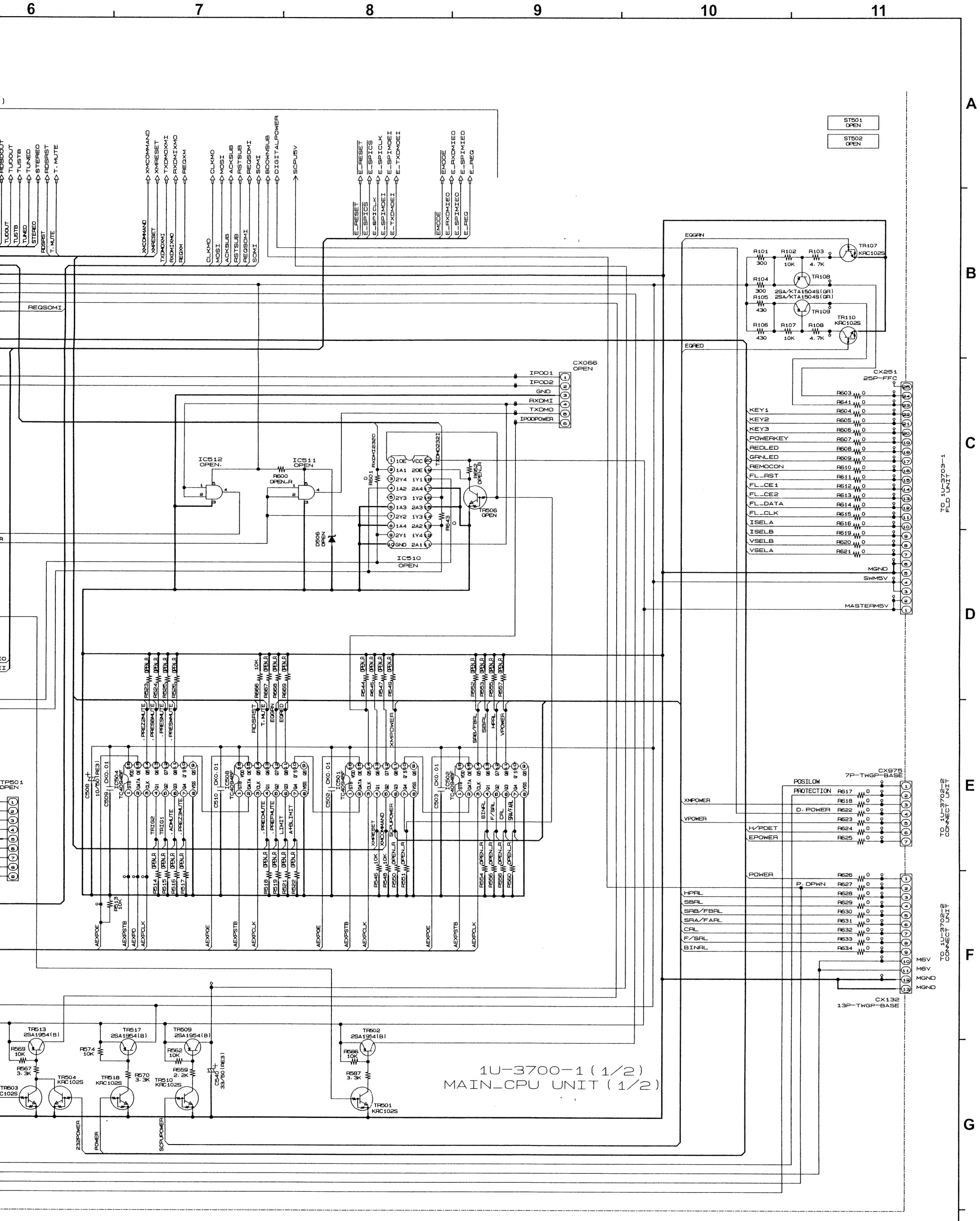
R644 220 R645 220 R646 220 R650 220 R645 220 R647 220 R649 220 R651 220

PROTECTION

TR513 2SA1954(B) TR517 2SA1954(B) TR503 KRC102S TR504 KRC102S TR518 KRC102S

R569 10K R567 3.3K R574 10K

232POWER POWER



SCHEMATIC DIAGRAMS (1/31)

1U-3700-1 MAIN CPU UNIT (1/2)

1 2 3 4 5 6 7

1U-3700-1(2/2)
MAIN_CPU UNIT(2/2)

TO AUDIO
1U-3704-1

TO DIGITAL IN
1U-3700-2

TO 232C UNIT
1U-3703-13

VIDEO

TO PREOUT
1U-3700-3

TO 1U-3704-1(1/4) AUDIO UNIT
CX951 5P-TUCP-BASE
TUNER_GND
TUNER_L
TUNER_GND
TUNER_R
TUNER_GND

CX161 16P-TUCP-BASE
+15V
TUNER_L
TUNER_GND
TUNER_R
MGND
SWM5V
T.MUTE
RDSRST
RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TO 1U-3700-2 DIGITAL IN UNIT
AVR-MODEL ONLY

CX967 6P-TUCP-BASE
D.IN
ZONE2
ZONE3
DREC
DGND
D3.3V
TO 1U-3700-2 DIGITAL IN UNIT

CX115 11P-TUCP-BASE
TO 1U-3704-1(1/4) AUDIO UNIT
PHONOR
PHONOL
CDR
CDL

CX114 11P-TUCP-BASE
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
Z3INH

CW912 11P-JE-BASE
TO 1U-3703-13 232C UNIT

CW913 11P-JE-BASE
TO 1U-3703-13 232C UNIT
TRIG2
TRIG1
TRIG12V
REMOCON
RXDMI2320
TXDMO232I
MGND
MGND
MASTER5V
+5V232

CX133 13P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DASBRSWMUTE
DASBLCMUTE
DAFRSRMUTE
DASLFLMUTE
ADGND
ADINR
ADGND
ADINL
ADGND
A-15V
A-15V
A+15V
A+15V

CX154 15P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DASBR
DA-AGND
DASW
DA-AGND
DAC
DA-AGND
DASBL
DA-AGND
DASR
DA-AGND
DAFR
DA-AGND
DAFL
DA-AGND
DASL

CX116 11P-TUCP-BASE
TO 1U-3704-1(2/4) AUDIO UNIT
DAZ3R
DAZ3L
DAZ2R
DAZ2L
DAZ2MUTE
DAZ3MUTE

CY931 OPEN
IPODSC
IPODGND
IPODSY

TO 1U-3704-6 S-VIDEO UNIT
IPODSY
IPODGND
IPODSC
IPODGND
OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
SYNC.DET
COMPSDET
Z1SMONIDET
Z1SSIG.DET.
Z1VSIG.DET.
VEXPCLK
VEXPD
VEXPSTB
VEXPOE
VM+5V
VMGND
VAUXV
VGND
VAUXSY
VGND
VAUXSC

CX252 25P-FFC

TO 1U-700-4 PRE CONNECT2 UNIT
VAUXSC
VGND
VAUXSY
VGND
VAUXV
5P-PH CW052

CX141 14P-TUCP-BASE
TO 1U-3700-3 EXT IN/PREOUT UNIT
HIGH+B(MUTE)
MUTE5V
MUTEGND
.ADMUTE
.PREZ3MUTE
.PREZ2MUTE
.PRESBMUTE
.PRESMUTE
.PRESWMUTE
.PRECMUTE
PREFMUTE
ADMUTE
-15V

CX162 16P-TUCP-BASE
TO 1U-3704-1(3/4) AUDIO UNIT
HIGH+B(MUTE)
PRECPUGND
PRECPUGND
LIMIT
A+BLIMIT
E.VOL_STBB
E.VOL_STBA
E.VOL_DATA
E.VOL_CLK
FCLK
FDATA
FSTB2
ADMUTE
MICDET
ASIGDET

OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
SYNC.DET
COMPSDET
Z1SMONIDET
Z1SSIG.DET.
Z1VSIG.DET.
VEXPCLK
VEXPD
VEXPSTB
VEXPOE
MASTER5V
SWM5V
232C5V
REMOCON
TXDMO232I
RXDMI2320
TRIG2
TRIG1
MUTE5V
.ADMUTE
.PREZ3MUTE
.PREZ2MUTE
.PRESBMUTE
.PRESMUTE
.PRESWMUTE
.PRECMUTE
.PREFMUTE
LIMIT
A+BLIMIT
E.VOL_STBB
E.VOL_STBA
E.VOL_DATA
E.VOL_CLK
FCLK
FDATA
FSTB1
FSTB2
MICDET
ASIGDET
MGND
SWM5V
T.MUTE
RDSRST
RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
CLKMO
MOSI
ACKSUB
RSTSUB

TO 1U-3700-1(1/2)

7 8 9 10 11

A B C D E F G H

TO DIGITAL IN
1U-3700-2

TO DIGITAL UNIT
1U-3705

TO D.LINK
1U-3704-2

DENON ORIGINAL ERSATZTEILE / ORIGINAL SPAREPARTS

Lagerort / Warehouse Location	Lieferschein Nr. / Delivery Note No.
E014I06B	0250375608
Menge / Quantity: 1	
Ihre Ref. Nr. / Your Ref. No. 054395300	Datum / Date 28.02.2006

Artikel / Article
SCHEMATIC DIAGRAM AVR3806
SMAVR3806

DENO -00418

CX161
16P-TUCP-BASE
+15V
TUNER_L
TUNER_GND
TUNER_R
MGND
SWM5V
MUTE
SRST
SCE
RDSDATA
RDSCLK
RDSDOUT
TUDOUT
STB
TUNED
STEREO
TO 1U-3700-2 DIGITAL IN UNIT
AVR_MODEL ONLY

CX911
11P-PIN-HEADER(9120)
TO 1U-3705(2/11) DIGITAL UNIT
DLINK_ON
DL1
DL2
DL3
DLACK.
CX117
11P-TUCP-BASE
TO 1U-3704-2 D.LINK UNIT

CX967
6P-TUCP-BASE
D. IN
ZONE2
ZONE3
DREC
DGND
D3.3V
CX968
6P-PIN-HEADER(9120)
TO 1U-3700-2 DIGITAL IN UNIT
TO 1U-3705(2/11) DIGITAL UNIT
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
Z3INH
CX112
11P-PIN-HEADER(9120)
CX114
11P-TUCP-BASE

CX118
11P-TUCP-BASE
E_TXDMOEI
E_RXDMIEO
E_REQ
E_SPIMOEI
E_SPIMIEO
E_SPICLK
EMODE
E_SPICS
E_RESET
MASTER5V
MGND

CX137
13P-PIN-HEADER(9120)
DASBRSWMUTE
DASBLCMUTE
DAFRSAMUTE
DASLFLMUTE
ADGND
ADINR
ADGND
ADINL
ADGND
A-15V
A-15V
A+15V
A+15V
TO 1U-3705(6/11) DIGITAL UNIT

CX159
15P-PIN-HEADER(9120)
DASBR
DA-AGND
DASW
DA-AGND
DAC
DA-AGND
DASBL
DA-AGND
DASR
DA-AGND
DAFR
DA-AGND
DAFL
DA-AGND
DASL
TO 1U-3705(6/11) DIGITAL UNIT

CX113
11P-PIN-HEADER(9120)
DAZ3R
DAZ3L
DAZ2R
DAZ2L
DAZ2MUTE
DAZ3MUTE
TO 1U-3705(7/11) DIGITAL UNIT

CX777
OPEN
CX976
7P-PIN-HEADER(9120)
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
MGND
CLKMO
MOSI
ACKSUB
RSTSUB
BDOWNSUB
REQSOMI
SOMI
DIGITALPOWER
SCPU5V
CX101
10P-PIN-HEADER(9120)
TO 1U-3705(5/11) DIGITAL UNIT

CX031
3P-PH(RD)
TRIGGER+12V
TRIGGERGND
TO 1U-3702-1 P.SUPPLY UNIT

RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
XMRESET
CLKMO
MOSI
ACKSUB
RSTSUB
BDOWNSUB
REQSOMI
SOMI
DIGITALPOWER
SCPU5V
E_RESET
E_SPICS
E_SPICLK
E_SPIMOEI
E_TXDMOEI
EMODE
E_RXDMIEO
E_SPIMIEO
E_REQ

SCHEMATIC DIAGRAMS (2/31)

1U-3700-2 MAIN CPU UNIT (2/2)

1 2 3 4 5 6

1U-3700-2 DIGITAL_IN UNIT

TO 1U-3700-4 PRE CONNECT2 UNIT

D3.3V DGND OPT5

CX033 3P-PH(RD)

OPTICAL INPUT

OPT-1 IC907 TORX142(F)

OPT-2 IC908 TORX142(F)

OPT-3 IC909 TORX142(F)

OPT-4 IC910 TORX142(F)

C912 33/50(RE3) C914 CK0.1 C920 4.7/50(RE3)

C913 33/50(RE3) C915 CK0.1 C921 4.7/50(RE3)

C916 CK0.1 C922 4.7/50(RE3)

C917 CK0.1 C923 4.7/50(RE3)

R925 22K R926 47K R917 22K R921 47K R918 22K R922 47K R919 22K R923 47K R920 22K R924 47K

C911 33/50(RE3) C909 CK0.1 C910 CK0.1

IC903 TC74VHCU04F IC904 TC74VHC14F

R913 100 R915 100 R916 100 R929 100 R914 100

ZONE 1 C907 CK0.1 IC906 TC74HC151AF

R931 100 R932 100

DINA. DINB. DINC.

RECOUT

OPT-3 TOTX142(F) IC911

OPT-4 TOTX142(F) IC912

C925 CK0.1 C924 CK0.1 R934

C918 4.7/50(RE3) C930 CK0.1 R907 0

C919 4.7/50(RE3) C931 CK0.1 R908 0

D901 KDS226 D902 KDS226 R909 47K R910 2.2K R927 47K R928 2.2K C927 OPEN_C C928 OPEN_C

C908 CK0.1 IC902 TC74VHCU04F

C929 CK0.1 R911 100 R912 100 IC913 TC74VHC14F

C1 C2

JK901 2P-JACK_8658001

COAX. INPUT C-1 C-2

R901 100 R902 100 C903 OPEN_C C905 150 R903 150 C904 OPEN_C C906 150 R904 150 C902 0 C901 0 FG

EUROPE_MODEL_ONLY

RDSRST_3 RDSCE_3 TURDSDATA_3 TURDSCLK_3 RDSDOUT_3

R935 100 R937 100 R938 100 R939 100 R940 100

R941 10K R942 10K

IC914 LC72722PM

VREF STB MPXIN DATA VDDA CLK VSSA DO FLOUT RDS-ID CIN SYNC T1 T2 T3 T4 T5 T6 T7 VSSD VDDD XOUT XIN SYA

X901 (4.332MHZ) C937 22P C938 22P R943 220 C936 330P C935 560P C932 1/50(RE3) C933 CK0.1 C934 10/50(RE3)

TR901 OPEN R946 OPEN R958 0 R944 OPEN

T.MUTE_3 TR902 KRC102S

IC915 KIA7812API C939 1/50(RE3) C940 1/50(RE3)

J901 OPEN(12.5)

STEREO_3 TUNED_3 TUSTB_3 TUDOUT_3 RDSDOUT_3 TURDSCLK_3 TURDSDATA_3 RDSCE_3 RDSRST_3 T.MUTE_3 SWM5V_3

SWM5V MGND TUNER_R TUNER_GND TUNER_L +15V

CW161 16P-TUCP-SOCKET

TO 1U-3700-1(2/2) MAIN CPU UNIT

6 7 8 9 10 11

A B C D E F G H

-3700-2
AL_IN UNIT

ZONE 1
C907 CK0.1
IC906
TC74HC151AF
DINA.
DINB.
DINC.

ZONE2/REC
C906 CK0.1
IC905
TC74HC151AF
R932 100
R930 10K
DRECA.
DRECB.
DRECC.
DRECINH.

ZONE3
C905 OPEN
IC901
OPEN
R933 OPEN
R935 OPEN
DZ3A.
DZ3B.
DZ3C.

CW114
11P-TUCP-SOCKET
DINA.
DINB.
DINC.
DRECA.
DRECB.
DRECC.
DRECINH.
DZ3A.
DZ3B.
DZ3C.
Z3INH
TO 1U-3700-1(2/2) MAIN CPU UNIT

TO 1U-3700-1(2/2) MAIN CPU UNIT
D. IN
ZONE2
ZONE3
DREC
DGND
D3.3V
CW967
6P-TUCP-SOCKET (TO DIR)

TUDOUT_3
TURDSCLK_3
TURDSDATA_3
TUSTB_3
R954 100
R955 100
R956 100
R957 100
CX150
15P-FFC
STBTU
DATATU
CKTU
DATAOUT
GND
TU5V
+12V
RDS
TUNERL
GND
TUNERR
MUTE(T)
TUNED
STEREO

C954 OPEN_C
C941 OPEN_C
C942 100P
C943 OPEN_C
R946 100K
C944 CK1000P
C945 CK1000P
C946 OPEN_C
C947 CK1000P
C948 CK1000P
C949 CK1000P
R947 10K
R948 10K
R949 2K
J905 OPEN(5)
R952 100
R953 100
STEREO_3
TUNED_3
T.MUTE_3
R945 OPEN
R958 0
TR902 KRC102S
TR903 KRC102S
TR904 DTA114TK
C950 10/50(RE3)
R950 1K
R951 1K
J902 OPEN(12.5)
TR905 DTC323TK
TR906 DTC323TK
IC915 KIA7812API
IC916 OPEN
J906 OPEN(5)
J904 OPEN(5)
C939 1/50(RE3)
C940 1/50(RE3)
C951 OPEN
J903 SHORT_10
J901 OPEN(12.5)
C952 CK1000P
C953 CK1000P
J907 SHORT_10

to TUNER PACK

CKET

AVR-MODEL ONLY

SCHEMATIC DIAGRAMS (3/31)
1U-3700-2 DIGITAL IN UNIT

2 3 4 5 6 7

PREOUT

FL FR C SW SL SR SBL SBR

JK801 4P-JACK_8545004

JK802 4P-JACK_8545004

JK803 4P-JACK_8545004

JK804 4P-JACK_8545004

JK805 4P-JACK_8545004

AVR MODEL ONLY

ZONE 2 (AVR MODEL ONLY)

AVR MODEL ZONE 3 OUT

AVC MODEL TUNER IN

8CH EXT. IN.

PREFMUTE PRECMUTE PRESWMUTE PRESMUTE PRESBMUTE PREZ2MUTE PREZ3MUTE

	*1 R883 R884	*2 C833 C834	*3 R877·873 R878·874	*4 C833 C834
AVR MODEL	220	22/50	470	22/50
AVC MODEL	100	10/50	0	SHORT

1U-3700-3
EXT_IN/PREOUT UNIT

AVR_MODEL ONL

TR825 TR826 TR827 TR828 TR829 TR830 KRA102S

CW152 15P-TUCP-SOCKET
PREFL PREGND PREFR PREGND PREC PREGND PRESW PREGND PRESL PREGND PRESR PREGND PRESBL PREGND PRESBR

TO 1U-3702-4 PRE CONNECT UNIT

CW973 7P-TUCP-SOCKET
PREZ2L PREGND PREZ2R PREGND PREZ3L PREGND PREZ3R

TO 1U-3703-14 PRE CONNECT UNIT

1U-3700-4
PRE_±CONNECT U

CX178 BASE_9610TOP(DIP) — CX177 OPENBASE_DIP_1.25_TOP
1pod9V 1podGND R_IPOD AGND_IPOD L_IPOD NC SC_IPOD VGND_IPOD SY_IPOD IPOD_CON. IPOD_ID GND RXDMI TXDMO NC 1podGND 1pod9V

J892 OPEN
JB91 OPEN-5.0
C891 OPEN

CY171 17P-FFC
VAUXL VAUXGND VAUXR VAUXGND CVBS CGND S-Y SGND S-C DGND D3.3V OPT5 MIC+15 MIC-15 MICSIG MICGND MICDET

TO 1U-3704-3 FRONT IN UNIT

CW145 14P-FJ-PLUG
AMPGND AMPFL AMPGND AMPFR AMPGND AMPC AMPGND AMPSL AMPGND AMPSR AMPGND AMPSBL AMPGND AMPSBR

TO 1U-3704-1 AUDIO UNIT

CW914 11P-FJ-PLUG
A+15V A+15V A-15V A-15V PRERETGND PRERETGND MUTEBGND MUTEBGND LIMIT+B HIGH+B ASIGDET1

TO 1U-3704-1 AUDIO UNIT

.EXTIN-FR .EXTIN-FL .EXTIN-SW .EXTIN-C .EXTIN-SR .EXTIN-SL .EXTIN-SBR .EXTIN-SBL

TO 1U-3703-12 EXT. CONNECT UNIT

15P-TUCP-SOCKET CW157

6 7 8 9 10 11

A B C D E F G H

700-3
EOUT UNIT

AVR_MODEL ONLY

TR828 KRA102S . PRESMUTE_4
TR829 KRA102S . PRESBMUTE_4
TR830 KRA102S . PREZ2MUTE_4
TR831 KRA102S . PREZ3MUTE_4
TR832 KRA102S . ADMUTE_4

D803 1SR35-400A
D801 1SR35-400A
D802 1SR35-400A
DC04 UDZS5.6B

RR837 1.2K(1W)
RR839 1.2K(1W)
RR840 1.2K(1W)

RR826 10K
RR827 1K
RR828 470K
RR829 470K
RR830 1K
RR831 10K
RR832 470K
RR833 1K
RR834 10K
RR835 470K
RR836 1K
RR838 10K
RR841 470K
RR842 1K
RR843 10K
RR844 10K

C857 0.1/50(RE3)
C858 0.1/50(RE3)
C859 0.1/50(RE3)
C866 0.1/50(RE3)
C860 10/50(RE3)

PRESMUTE
PRESBMUTE
PREZ2MUTE
PREZ3MUTE

CW141
14P-TUCP-SOCKET
HIGH+B
MUTE5V
MUTEGND
. ADMUTE_4
. PREZ3MUTE_4
. PREZ2MUTE_4
. PRESBMUTE_4
. PRESMUTE_4
. PRESWMUTE_4
. PRECMUTE_4
. PREFMUTE_4
ADMUTE
-15V

TO 1U-3700-1(2/2)
MAIN CPU UNIT

R996 OPEN_R
R997 OPEN_R
R998 OPEN_R
R999 OPEN_R

1U-3700-4
PRE_±CONNECT UNIT

D805 D807 D806 D808 OPEN

IC801 OPEN (1/2)
IC801 OPEN (2/2)

RR845 OPEN_R
RR846 OPEN
RR847 OPEN
RR848 OPEN
RR849 OPEN
RR850 OPEN
RR851 OPEN
RR852 OPEN
RR853 OPEN
RR854 OPEN
RR855 OPEN
RR856 OPEN
RR857 OPEN
RR858 OPEN
RR859 OPEN
RR860 OPEN
RR861 OPEN
RR862 OPEN
RR863 OPEN
RR864 OPEN
RR865 OPEN

C867 OPEN
C868 OPEN
C869 OPEN
C870 OPEN
C871 OPEN
C872 OPEN
C873 OPEN
C874 OPEN
C875 OPEN
C876 OPEN
C877 OPEN
C878 OPEN
C879 OPEN
C880 OPEN
C881 OPEN
C882 OPEN
C889 OPEN
C891 OPEN

J892 OPEN
J891 OPEN_5.0

CX178 OPEN BASE_9610TOP(DIP)
CX177 OPENBASE_DIP_1.25_TOP
ipod9V
ipodGND
R_IPOD
AGND_IPOD
L_IPOD
NC
SC_IPOD
VGND_IPOD
SY_IPOD
IPOD_CON.
IPOD_ID
GND
RXDMI
TXDMO
NC
ipodGND
ipod9V

CY932 OPEN
R
L

CX931 OPEN
IPODSC
IPODGND
IPODSY

CY066 OPEN
IPOD1
IPOD2
GND
RXDMI
TXDMO
IPODPOWER

CY612 OPEN
ipod9V
ipodGND
ipodPOWER

CY171 17P-FFC
VAUXL
VAUXGND
VAUXR
VAUXGND
CVBS
CGND
S-Y
SGND
S-C
DGND
D3.3V
OPT5
MIC+15
MIC-15
MICSIG
MICGND
MICDET

TO 1U-3704-3
FRONT IN UNIT

CY034 3P-PH(BU)
VAUXL
VAUXGND
VAUXR

V. AUX AUDIO
TO 1U-3704-1
AUDIO UNIT

CY052 5P-PH(RD)
CVBS
CGND
S-Y
SGND
S-C

V. AUX VIDEO
TO 1U-3704-6
S-VIDEC UNIT

CY033 3P-PH(RD)
D3.3V
DGND
OPT5

V. AUX OPT
TO 1U-3700-6
D.IN UNIT

CW053 5P-PH(RD)
MIC+15
MIC-15
MICSIG
MICGND
MICDET

FRONT MICIN
TO 1U-3700-1
MAIN CPU UNIT

CW145
14P-FJ-PLUG
AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR

TO 1U-3704-1
AUDIO UNIT

CW151
15P-TUCP-SOCKET
AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR
AMPGND

TO 1U-3702-2
CONNECT UNIT

CW914
11P-FJ-PLUG
A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1

TO 1U-3704-1
AUDIO UNIT

CW119
11P-TUCP-SOCKET
A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1

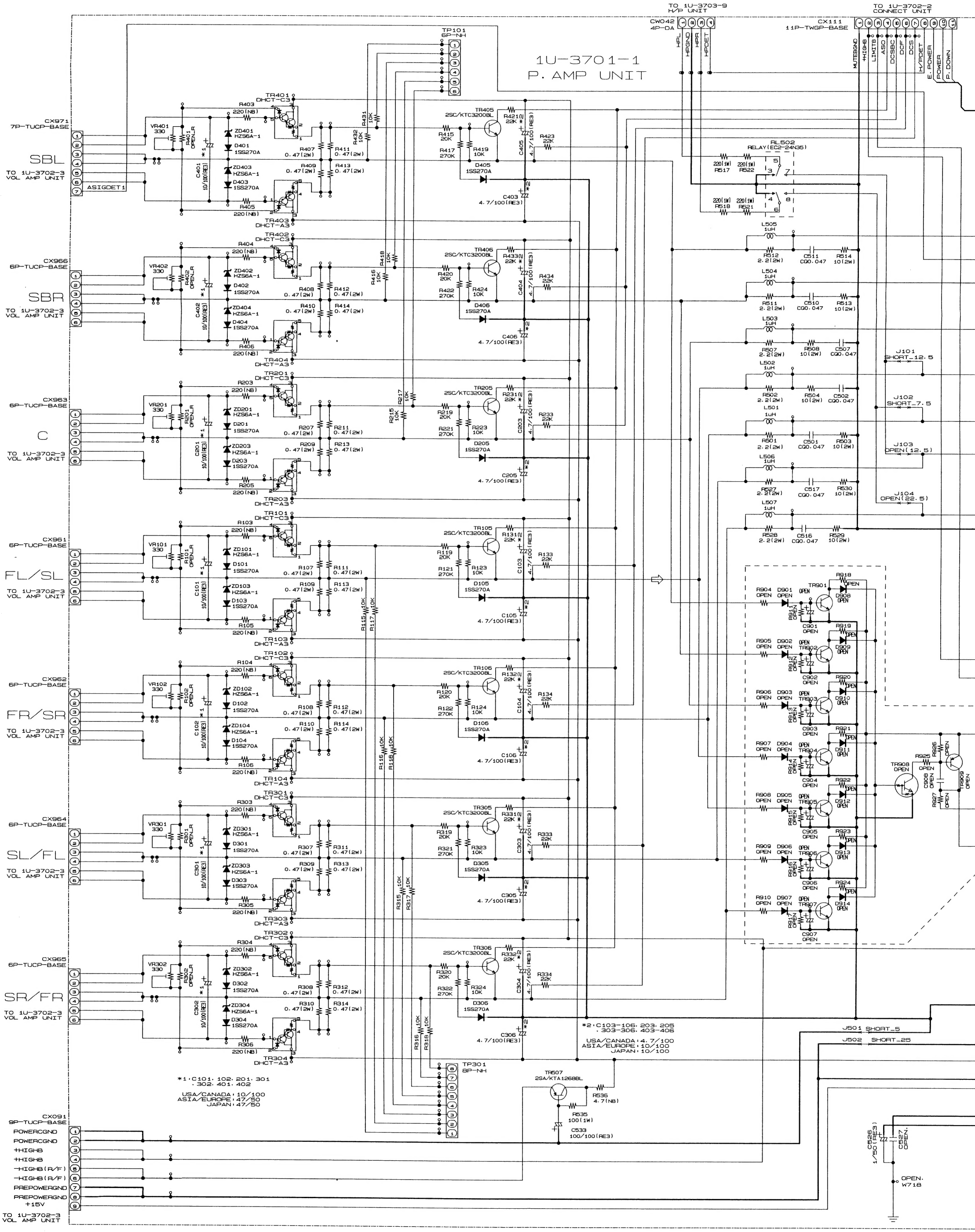
TO 1U-3702-2
CONNECT UNIT

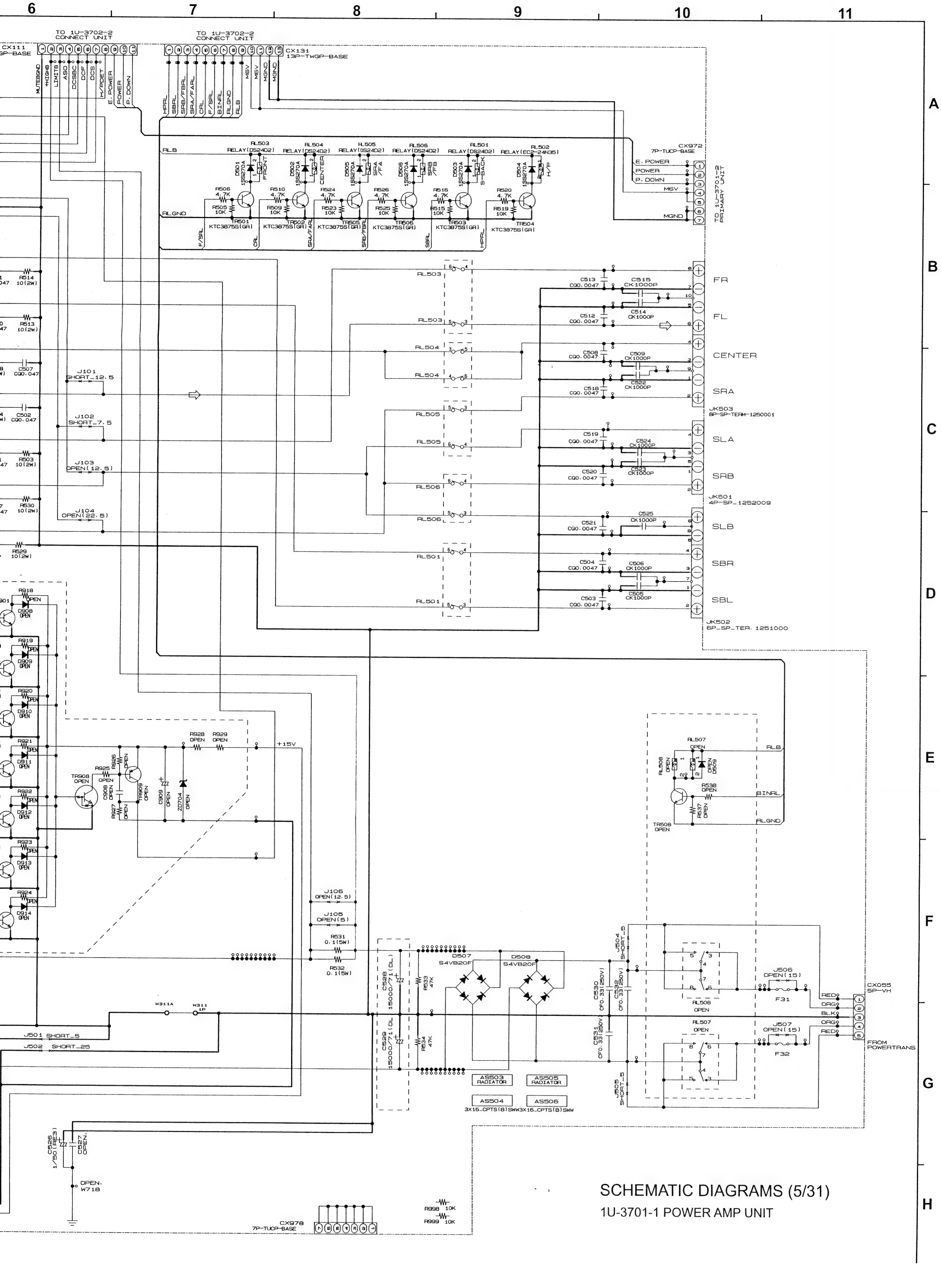
SCHEMATIC DIAGRAMS (4/31)

1U-3700-3 EXT IN / PREOUT UNIT
1U-3700-4 PRE CONNECT2 UNIT

SCHEMATIC DIAGRAMS (5/31)

1 2 3 4 5 6





SCHEMATIC DIAGRAMS (5/31)

1U-3701-1 POWER AMP UNIT

2 3 4 5 6 7

1U-3701-2
PRIMARY_UNIT

AVR4306 ONLY

CX045 OPEN
OPEN(5)
J601
E3.3V
E5V
EGND
EGND
C608 OPEN_C
C609 OPEN
IC605 OPEN
OUT IN
C615 OPEN_C
C616 OPEN
IC601 OPEN
OUT IN
G VC
R631 OPEN
R632 OPEN_R
AS601 OPEN.
R601 OPEN
IC602 OPEN
C622 OPEN
C621 OPEN_C
C623 OPEN
D608 OPEN
D609 OPEN
D606 OPEN
D603 OPEN
C624 OPEN
CX046 OPEN
MIN

R621 OPEN
ZD604 OPEN
TR611 OPEN
R622 OPEN
R623 OPEN
TR610 OPEN
R609 OPEN
D610 OPEN

R602 4.7K
ZD601 MTZJ18A
TR601 KRC102S
R603 4.7K
R604 10K
TR602 KTC3875S(GR)
R610 180(1W)
D601 KDS160

ZD603 UDZS6.8B
D604 1SR35-400A
D605 1SR35-400A
C617 1/50(RE3)

CW972
7P-TUCP-SOCKET
E. POWER
POWER
P. DOWN
M6V
MGND
TO 1U-3701-1 P.AMP UNIT

R605 4.7K
IC603 PQ30RV11
OUT IN
G VC
R606 51K_D
R607 150K_D
IC604 ICPN15
R618 10K
R619 20K
C602 OPEN_C
C603 10/50(RE3)
TR609 KTC3875S(GR)
AS602 OPEN.
R608 10K_D
C604 OPEN_C
C605 6800/25(SMG)
C606 1/50(RE3)
D611 1SR35-400A
D612 1SR35-400A
D602 1SR35-400A
D607 1SR35-400A
C607 CQ0.1
MIN

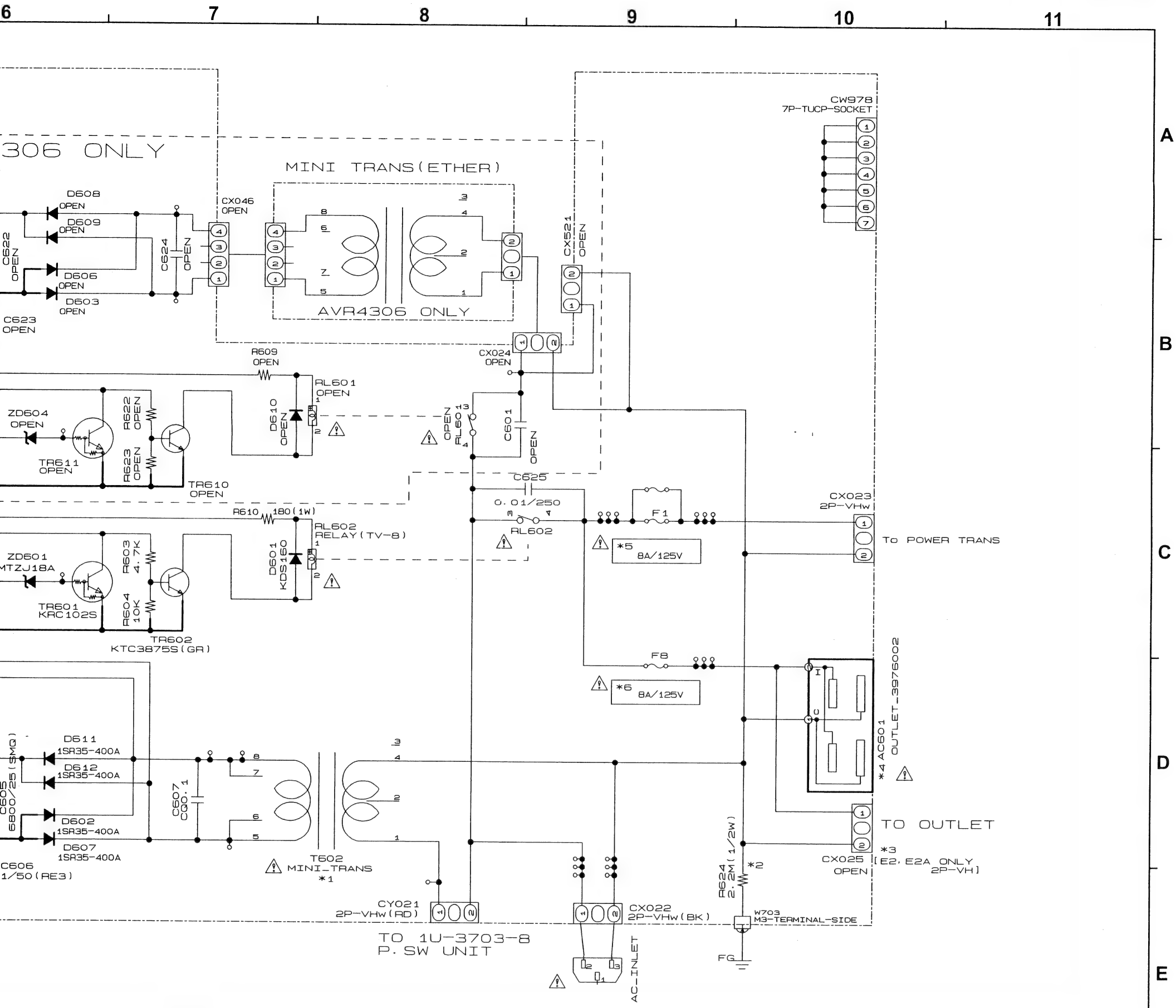
W701
M3-TERMINAL-SIDE
GND2

1U-3701-6

ST601
STYLE-PIN

AVR3806

	*1 T602
*USA CANADA	2336524
EUROPE	2336526
ASIA	2336526
CHINA KOREA	2336528
TAIWAN R.O.C	2336524
JAPAN	2330703



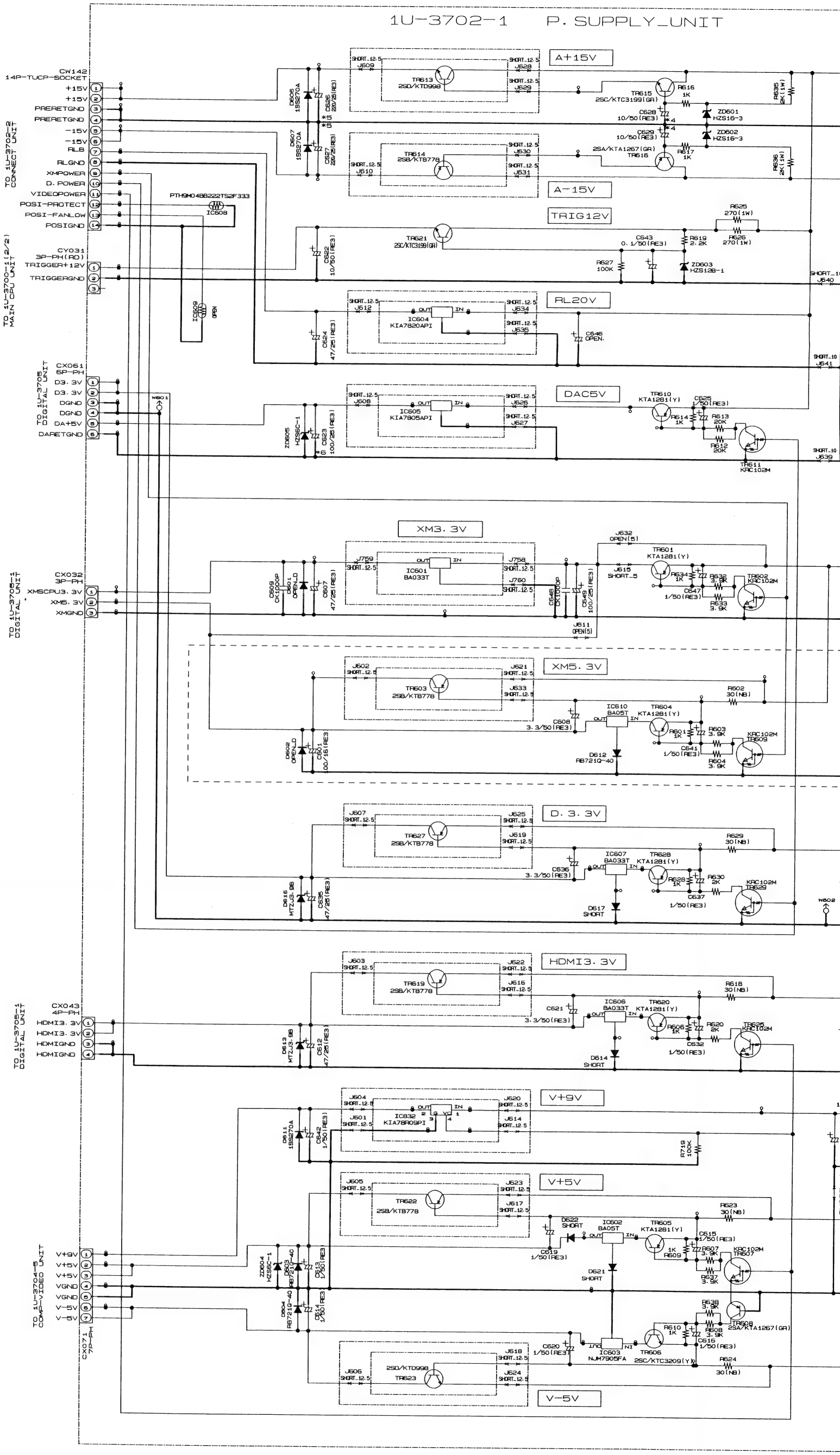
AVR3806

	*1 T602	*2 R624	*3 CX025	*4 AC601	*5 F1	*6 F8
*USA CANADA	2336524009	2.2M	OPEN	AC OUTLET	8A/125V	8A/125V
EUROPE	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
ASIA	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
CHINA KOREA	2336528005	OPEN	OPEN	OPEN	4A/250V	OPEN
TAIWAN R.O.C	2336524009	OPEN	OPEN	AC OUTLET	8A/125V	8A/125V
JAPAN	2330703004	OPEN	OPEN	AC OUTLET	10A/125V	8A/125V

SCHEMATIC DIAGRAMS (6/31)

1U-3701-2 PRIMARY UNIT
1U-3701-6 STYLE PIN UNIT

1 2 3 4 5 6


1U-3702-1 P. SUPPLY_UNIT
A+15V
A-15V
TRIG12V
RL20V
DAC5V
XM3. 3V
XM5. 3V
D. 3. 3V
HDMI3. 3V
V+9V
V+5V
V-5V
CW142 14P-TUCP-SOCKET
TO 1U-3702-2 CONNECT UNIT
+15V
PRERETGND
-15V
RLB
RLGND
XMPOWER
D. POWER
VIDEOPOWER
POSI-PROTECT
POSI-FANLOW
POSIGND
CY031 3P-PH(RD)
TRIGGER+12V
TRIGGERGND
TO 1U-3700-1(2/2) MAIN CPU UNIT
CX061 6P-PH
D3. 3V
DGND
DA+5V
DARETGND
TO 1U-3705 DIGITAL UNIT
CX032 3P-PH
XMSCPU3. 3V
XM5. 3V
XMGND
CX043 4P-PH
HDMI3. 3V
HDMIGND
CX071 7P-PH
V+9V
V+5V
VGND
V-5V
TO 1U-3704-5 COMP-VIDEO UNIT
IC608
IC609
IC604 KIA7820API
IC605 KIA7805API
IC601 BA033T
IC610 BA05T
IC607 BA033T
IC606 BA033T
IC832 KIA78R09PI
IC602 BA05T
IC603 NJM7905FA
TR613 2SD/KTD998
TR614 2SB/KTB778
TR615 2SC/KTC3199(GR)
TR616 2SA/KTA1267(GR)
TR621 2SC/KTC3199(GR)
TR610 KTA1281(Y)
TR611 KRC102M
TR601 KTA1281(Y)
TR602 KRC102M
TR603 2SB/KTB778
TR604 KTA1281(Y)
TR609 KRC102M
TR627 2SB/KTB778
TR628 KTA1281(Y)
TR629 KRC102M
TR619 2SB/KTB778
TR620 KTA1281(Y)
TR635 KRC102M
TR622 2SB/KTB778
TR605 KTA1281(Y)
TR607 KRC102M
TR623 2SD/KTD998
TR606 2SC/KTC3209(Y)
TR608 2SA/KTA1267(GR)
D606 1SS270A
D607 1SS270A
D611 1SS270A
D608 MTZJ3.9B
D613 MTZJ3.9B
D616 MTZJ3.9B
ZD604 HZS5C-1
ZD605 HZS5C-1
D603 RB721Q-40
D604 RB721Q-40
D612 RB721Q-40
D617 SHORT
D614 SHORT
D621 SHORT
D622 SHORT
ZD601 HZS16-3
ZD602 HZS16-3
ZD603 HZS12B-1
C626 220/25(RE3)
C627 220/25(RE3)
C628 10/50(RE3)
C629 10/50(RE3)
C622 10/50(RE3)
C643 0.1/50(RE3)
C624 47/25(RE3)
C646 OPEN.
C623 100/25(RE3)
C647 1/50(RE3)
C609 CK1000P
C607 47/25(RE3)
C648 CK1000P
C649 100/25(RE3)
C608 3.3/50(RE3)
C601 100/16(RE3)
C641 1/50(RE3)
C625 1/50(RE3)
C637 1/50(RE3)
C612 47/25(RE3)
C621 3.3/50(RE3)
C632 1/50(RE3)
C642 1/50(RE3)
C613 1/50(RE3)
C614 1/50(RE3)
C619 1/50(RE3)
C615 1/50(RE3)
C620 1/50(RE3)
C616 1/50(RE3)
C636 3.3/50(RE3)
C635 47/25(RE3)
R616 1K
R617 1K
R625 270(1W)
R626 270(1W)
R619 2.2K
R627 100K
R635 2K(1W)
R636 2K(1W)
R634 1K
R633 3.9K
R632 3.9K
R602 30(NB)
R601 1K
R603 3.9K
R604 3.9K
R609 1K
R607 3.9K
R637 3.9K
R629 30(NB)
R628 1K
R630 2K
R638 3.9K
R610 1K
R608 3.9K
R618 30(NB)
R606 1K
R620 2K
R623 30(NB)
R624 30(NB)
R719 100K
R614 1K
R613 20K
R612 20K
J632 OPEN(5)
J611 OPEN(5)
J615 SHORT_5
J640
J641
J639
W602
SHORT_12.5
SHORT_10
OPEN
OUT
IN
GND
VO

6 7 8 9 10 11

A B C D E F G H

PLY_UNIT

*1 F11
3. 15A/125V

D608
S4VB20

C630
8200/35

C631
8200/35

C505
C00. 1

C611
C50. 1(250V)

C506
C00. 1

CX035
3P-EH
To POWER TRANS

*1 F12
3. 15A/125V

AVR3806

	*1 F11. 12	*2 F13. 14	*3 F15. 16	*4 C628 C629	*5 C626 C627	*6 C623
*USA CANADA	3. 15A/125V	8A/125V	3. 15A/125V	10/50	220/25	100/25
EUROPE	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
ASIA	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
CHINA KOREA	3. 15A/250V	6. 3A/250V	3. 15A/250V	47/50	100/50	100/50
TAIWAN R.O.C	3. 15A/125V	8A/125V	3. 15A/125V	10/50	220/25	100/25
JAPAN	3. 15A/125V	8A/125V	3. 15A/125V	47/50	100/50	100/50

TR615
TC3199(GR)
R616
1K
R635
2K(1W)
C628
10/50(RE3)
*4
ZD601
HZS16-3
C629
10/50(RE3)
*4
ZD602
HZS16-3
TR616
A1267(GR)
R617
1K
R636
2K(1W)
R625
270(1W)
C643
0. 1/50(RE3)
R619
2. 2K
R626
270(1W)
ZD603
HZS12B-1
SHORT_10
J640
SHORT_10
J641
TR610
KTA1281(Y)
C625
1/50(RE3)
R614
1K
R613
20K
R612
20K
TR611
KRC102M
SHORT_10
J639

J632
EN(5)
TR601
KTA1281(Y)
J615
ORT_5
R634
1K
R632
3. 9K
C647
1/50(RE3)
R633
3. 9K
TR602
KRC102M
D627
1SR35-400A
D626
1SR35-400A
15000/16(SMG)
C651
C610
10000/25(SMG)
D625
1SR35-400A
D624
1SR35-400A
*2 F13
8A/125V
C634
C00. 1
J754
SHORT_15
CX036
3P-VH
To POWER TRANS
*2 F14
8A/125V

R602
30(NB)
TR604
KTA1281(Y)
R601
1K
R603
3. 9K
C641
1/50(RE3)
R604
3. 9K
KRC102M
TR609
USA/CANADA
MODEL ONLY

R629
30(NB)
TR628
KTA1281(Y)
R628
1K
R630
2K
C637
1/50(RE3)
KRC102M
TR629
W602
C633
22000/16(SMG)
C650
8200/16(SMG)
D618
S4VB20
J756
OPEN(5)

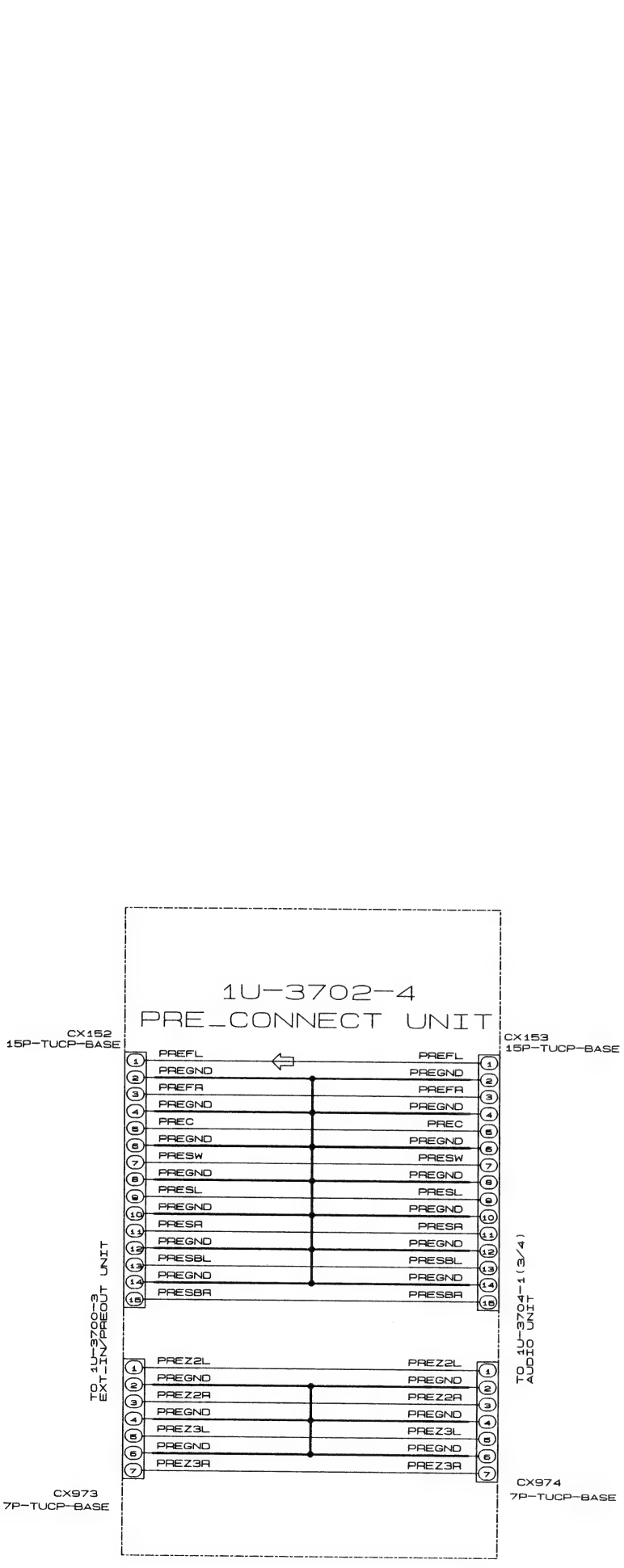
R618
30(NB)
TR620
KTA1281(Y)
R606
1K
R620
2K
C632
1/50(RE3)
TR625
KRC102M
S4VB20
D615
J757
OPEN(5)
C638
22000/16(SMG)
C645
OPEN

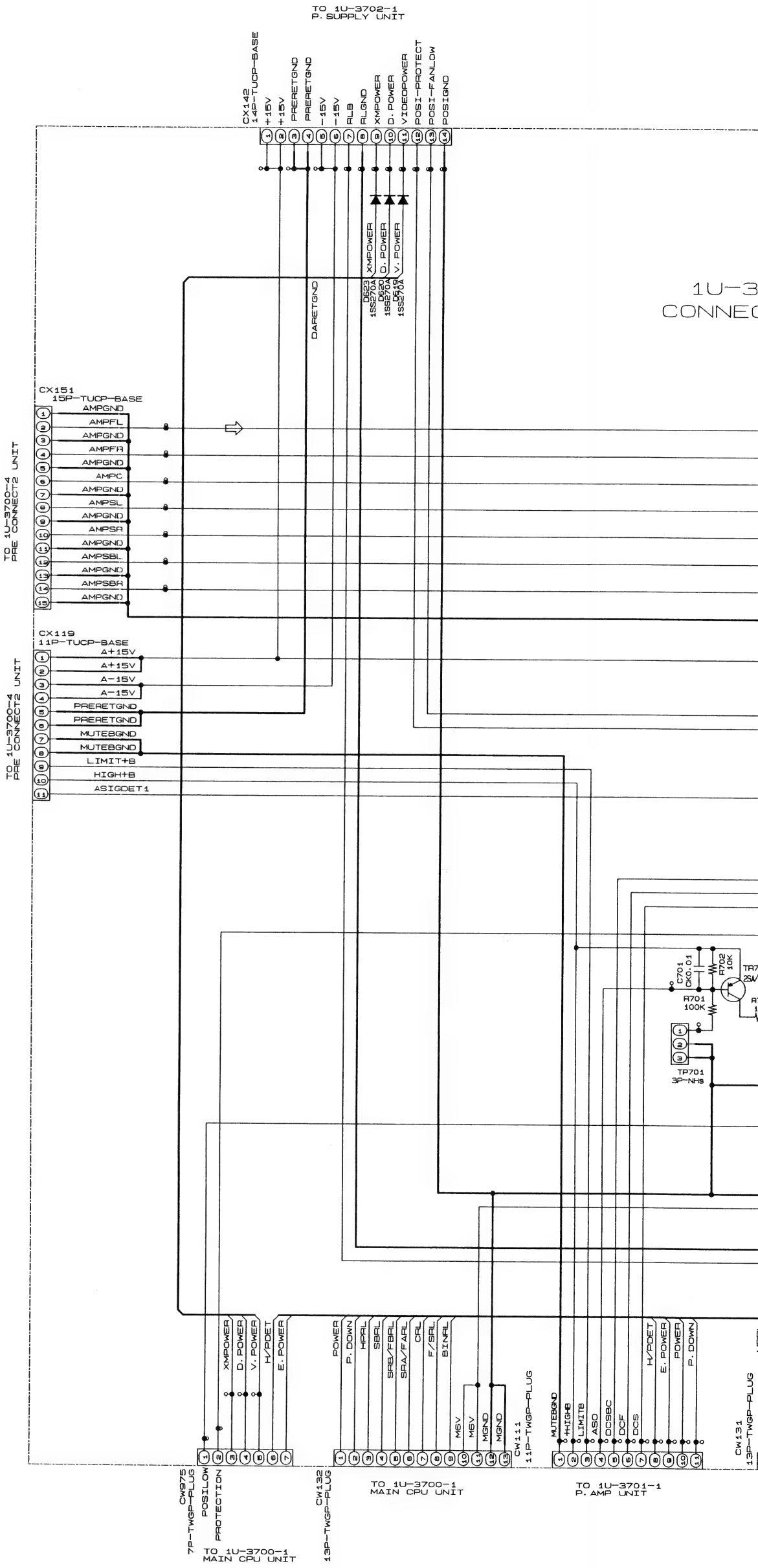
D610
1SR35-400A
C639
2200/35
C640
2200/35
D609
1SR35-400A
R719
100K
SHORT_15
J613
*3 F15
3. 15A/125V
R623
30(NB)
TR605
KTA1281(Y)
C615
1/50(RE3)
1K
R609
R607
3. 9K
KRC102M
TR607
R637
3. 9K
C617
15000/16(SMG)
S4VB20
D605
C502
C00. 1
C504
C00. 1
CX037
3P-EH(BU)
To POWER TRANS
R638
3. 9K
TR608
2SA/KTA1267(GR)
R610
1K
R608
3. 9K
C616
1/50(RE3)
TR606
2SC/KTC3209(Y)
R624
30(NB)
C618
15000/16(SMG)
C503
C00. 1
*3 F16
3. 15A/125V

SCHEMATIC DIAGRAMS (7/31)

1U-3702-1 P. SUPPLY UNIT

1 2 3 4 5 6 7

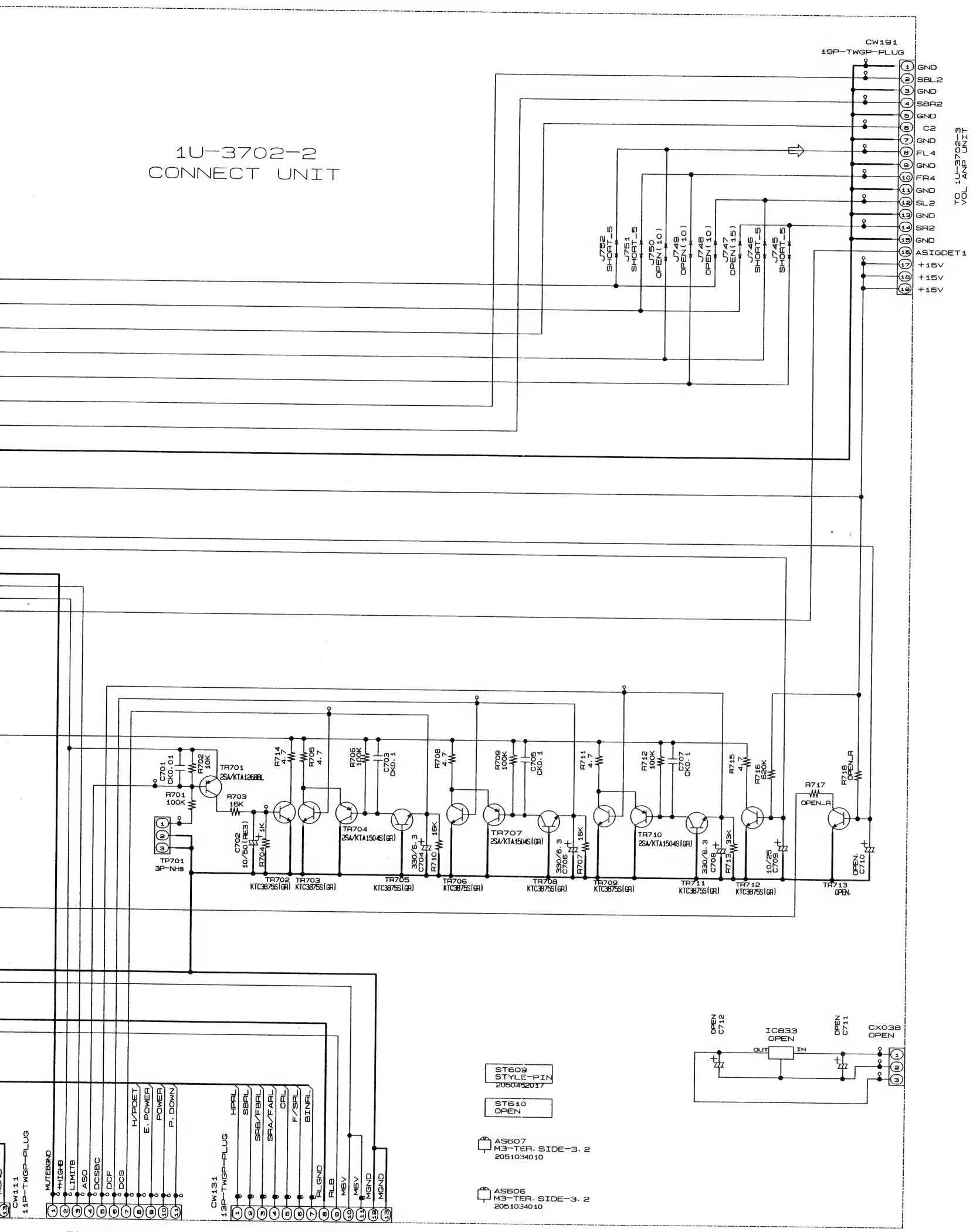

1U-3702-4
PRE_CONNECT UNIT
CX152
15P-TUCP-BASE
PREFL
PREGND
PREFR
PREGND
PREC
PREGND
PRESW
PREGND
PRESL
PREGND
PRESR
PREGND
PRESBL
PREGND
PRESBR
CX153
15P-TUCP-BASE
PREFL
PREGND
PREFR
PREGND
PREC
PREGND
PRESW
PREGND
PRESL
PREGND
PRESR
PREGND
PRESBL
PREGND
PRESBR
TO 1U-3700-3
EXT_IN/PREOUT UNIT
TO 1U-3704-1(3/4)
AUDIO UNIT
PREZ2L
PREGND
PREZ2R
PREGND
PREZ3L
PREGND
PREZ3R
CX973
7P-TUCP-BASE
PREZ2L
PREGND
PREZ2R
PREGND
PREZ3L
PREGND
PREZ3R
CX974
7P-TUCP-BASE


TO 1U-3702-1
P. SUPPLY UNIT
CX142
14P-TUCP-BASE
+15V
+15V
PRERETGND
PRERETGND
-15V
-15V
RLB
RLGND
XMPOWER
D. POWER
VIDEOPOWER
POSI-PROTECT
POSI-FANLOW
POSIGND
D623 1SS270A XMPOWER
D620 1SS270A D. POWER
D619 1SS270A V. POWER
DARETGND
1U-3
CONNEC
CX151
15P-TUCP-BASE
AMPGND
AMPFL
AMPGND
AMPFR
AMPGND
AMPC
AMPGND
AMPSL
AMPGND
AMPSR
AMPGND
AMPSBL
AMPGND
AMPSBR
AMPGND
TO 1U-3700-4
PRE CONNECT2 UNIT
CX119
11P-TUCP-BASE
A+15V
A+15V
A-15V
A-15V
PRERETGND
PRERETGND
MUTEBGND
MUTEBGND
LIMIT+B
HIGH+B
ASIGDET1
TO 1U-3700-4
PRE CONNECT2 UNIT
C701 CK0.01
R702 10K
TR7 2SA
R701 100K
TP701 3P-NHs
XMPOWER
D. POWER
V. POWER
H/PDET
E. POWER
POWER
P. DOWN
HPAL
SBAL
SRB/FBAL
SRA/FAAL
CAL
F/SAL
BINAL
M6V
M6V
MGND
MGND
CW111
11P-TWGP-PLUG
MUTEBGND
+HIGH+B
LIMITB
ASO
DCSBC
DCF
DCS
H/PDET
E. POWER
POWER
P. DOWN
CW131
13P-TWGP-PLUG
CW975
7P-TWGP-PLUG
POSILOW
PROTECTION
TO 1U-3700-1
MAIN CPU UNIT
CW132
13P-TWGP-PLUG
TO 1U-3700-1
MAIN CPU UNIT
TO 1U-3701-1
P. AMP UNIT

6 7 8 9 10 11

A B C D E F G H

1U-3702-2
CONNECT UNIT



SCHEMATIC DIAGRAMS (8/31)

1U-3702-2 CONNECT UNIT
1U-3702-4 PRE CONNECT UNIT

CHEMATIC DIAGRAMS (9/31)

1 2 3 4 5 6

1U-3702-3
VOL_AMP_UNIT

CX191
19P-TWGP-BASE

TO 1U-3702-2
CONNECT UNIT

1	GND
2	SBL2
3	GND
4	SBR2
5	GND
6	C2
7	GND
8	FL4
9	GND
10	FR4
11	GND
12	SL2
13	GND
14	SR2
15	GND
16	ASIGDET1
17	+15V
18	+15V
19	+15V

AS609
M3-TERMINAL-SIDE
2051034007

AS605
M3-TER. SIDE-3.2

SBL
C409 10/50(RE3)
R421 2.2K
C599 1/50(ARSA)
C411 CQ220P
R425 33K
R423 1.2K
C413 *7 CQ470P
2SA/KTA1268BL
TR407
TR409
R429 15K
C419 33P(500V)
R435 33K
R427 1K(NB)
R433 1K(NB)
C415 CQ0.0033
R431 300
C417 220/50(RE3)
D401 1SS270A
D403 1SS270A
R439 220(NB)
R443 220(NB)
R437 15K(1W)
TR413 KTA1024Y-A
C427 OPEN.
C421 5P(500V)
KTC3206Y-AT TR411
C423 47P(500V) *9
C425 220P(100V) *10
270(NB) R441
TR415 KTC3206Y-AT
D405 1SS270A

SBR
C410 10/50(RE3)
R422 2.2K
C412 CQ220P
R426 33K
R424 1.2K
C414 *7 CQ470P
2SA/KTA1268BL
TR408
TR410
R430 15K
C420 33P(500V)
R436 33K
R428 1K(NB)
R434 1K(NB)
C416 CQ0.0033
R432 300
C418 220/50(RE3)
D402 1SS270A
D404 1SS270A
R440 220(NB)
R444 220(NB)
R438 15K(1W)
TR414 KTA1024Y-A
C428 OPEN.
C422 5P(500V)
KTC3206Y-AT TR412
C424 47P(500V) *9
C426 220P(100V) *10
270(NB) R442
TR416 KTC3206Y-AT
D406 1SS270A

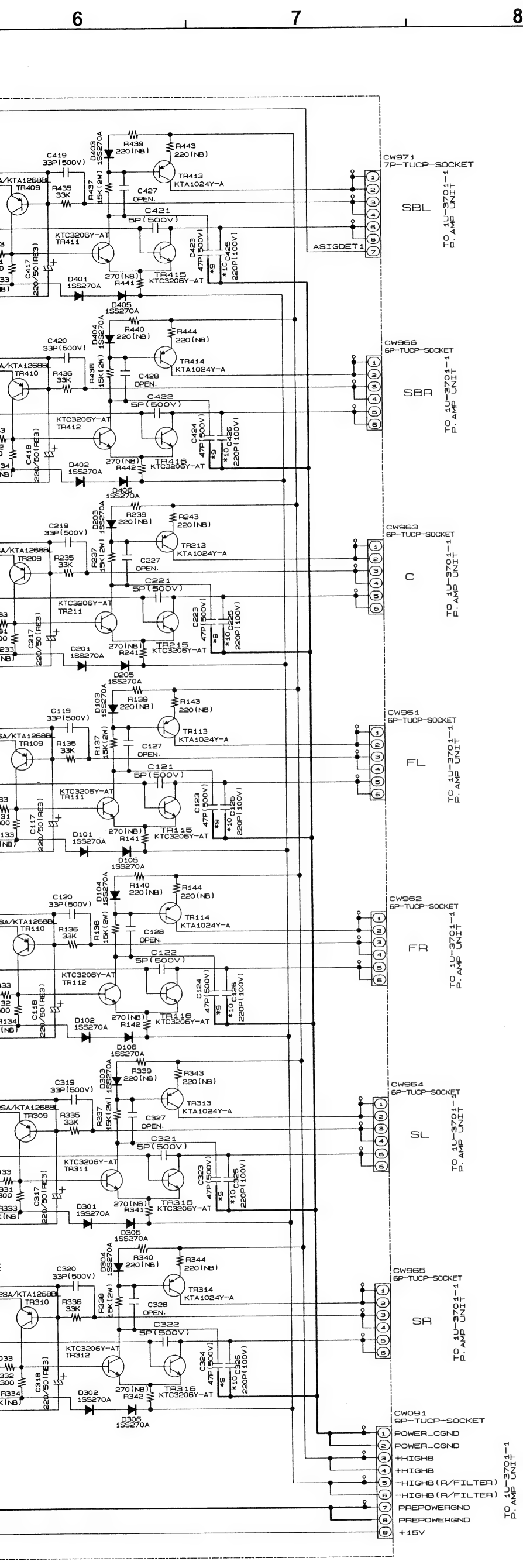
C
C209 10/50(RE3)
R221 2.2K
C211 CQ220P
R225 33K
R223 1.2K
C213 *7 CQ470P
2SA/KTA1268BL
TR207
TR209
R229 15K
C219 33P(500V)
R235 33K
R227 1K(NB)
R233 1K(NB)
C215 CQ0.0033
R231 300
C217 220/50(RE3)
D201 1SS270A
D203 1SS270A
R239 220(NB)
R243 220(NB)
R237 15K(1W)
TR213 KTA1024Y-A
C227 OPEN.
C221 5P(500V)
KTC3206Y-AT TR211
C223 47P(500V) *9
C225 220P(100V) *10
270(NB) R241
TR215 KTC3206Y-AT
D205 1SS270A

FL
C109 10/50(RE3)
R121 2.2K
C111 CQ220P
R125 33K
R123 1.2K
C113 *7 CQ470P
2SA/KTA1268BL
TR107
TR109
R129 15K
C119 33P(500V)
R135 33K
R127 1K(NB)
R133 1K(NB)
C115 CQ0.0033
R131 300
C117 220/50(RE3)
D101 1SS270A
D103 1SS270A
R139 220(NB)
R143 220(NB)
R137 15K(1W)
TR113 KTA1024Y-A
C127 OPEN.
C121 5P(500V)
KTC3206Y-AT TR111
C123 47P(500V) *9
C125 220P(100V) *10
270(NB) R141
TR115 KTC3206Y-AT
D105 1SS270A

FR
C110 10/50(RE3)
R122 2.2K
C112 CQ220P
R126 33K
R124 1.2K
C114 *7 CQ470P
2SA/KTA1268BL
TR108
TR110
R130 15K
C120 33P(500V)
R136 33K
R128 1K(NB)
R134 1K(NB)
C116 CQ0.0033
R132 300
C118 220/50(RE3)
D102 1SS270A
D104 1SS270A
R140 220(NB)
R144 220(NB)
R138 15K(1W)
TR114 KTA1024Y-A
C128 OPEN.
C122 5P(500V)
KTC3206Y-AT TR112
C124 47P(500V) *9
C126 220P(100V) *10
270(NB) R142
TR116 KTC3206Y-AT
D106 1SS270A

SL
C309 10/50(RE3)
R321 2.2K
C311 CQ220P
R325 33K
R323 1.2K
C313 *7 CQ470P
2SA/KTA1268BL
TR307
TR309
R329 15K
C319 33P(500V)
R335 33K
R327 1K(NB)
R333 1K(NB)
C315 CQ0.0033
R331 300
C317 220/50(RE3)
D301 1SS270A
D303 1SS270A
R339 220(NB)
R343 220(NB)
R337 15K(1W)
TR313 KTA1024Y-A
C327 OPEN.
C321 5P(500V)
KTC3206Y-AT TR311
C323 47P(500V) *9
C325 220P(100V) *10
270(NB) R341
TR315 KTC3206Y-AT
D305 1SS270A

SR
C310 10/50(RE3)
R322 2.2K
C312 CQ220P
R326 33K
R324 1.2K
C314 *7 CQ470P
2SA/KTA1268BL
TR308
TR310
R330 15K
C320 33P(500V)
R336 33K
R328 1K(NB)
R334 1K(NB)
C316 CQ0.0033
R332 300
C318 220/50(RE3)
D302 1SS270A
D304 1SS270A
R340 220(NB)
R344 220(NB)
R338 15K(1W)
TR314 KTA1024Y-A
C328 OPEN.
C322 5P(500V)
KTC3206Y-AT TR312
C324 47P(500V) *9
C326 220P(100V) *10
270(NB) R342
TR316 KTC3206Y-AT
D306 1SS270A

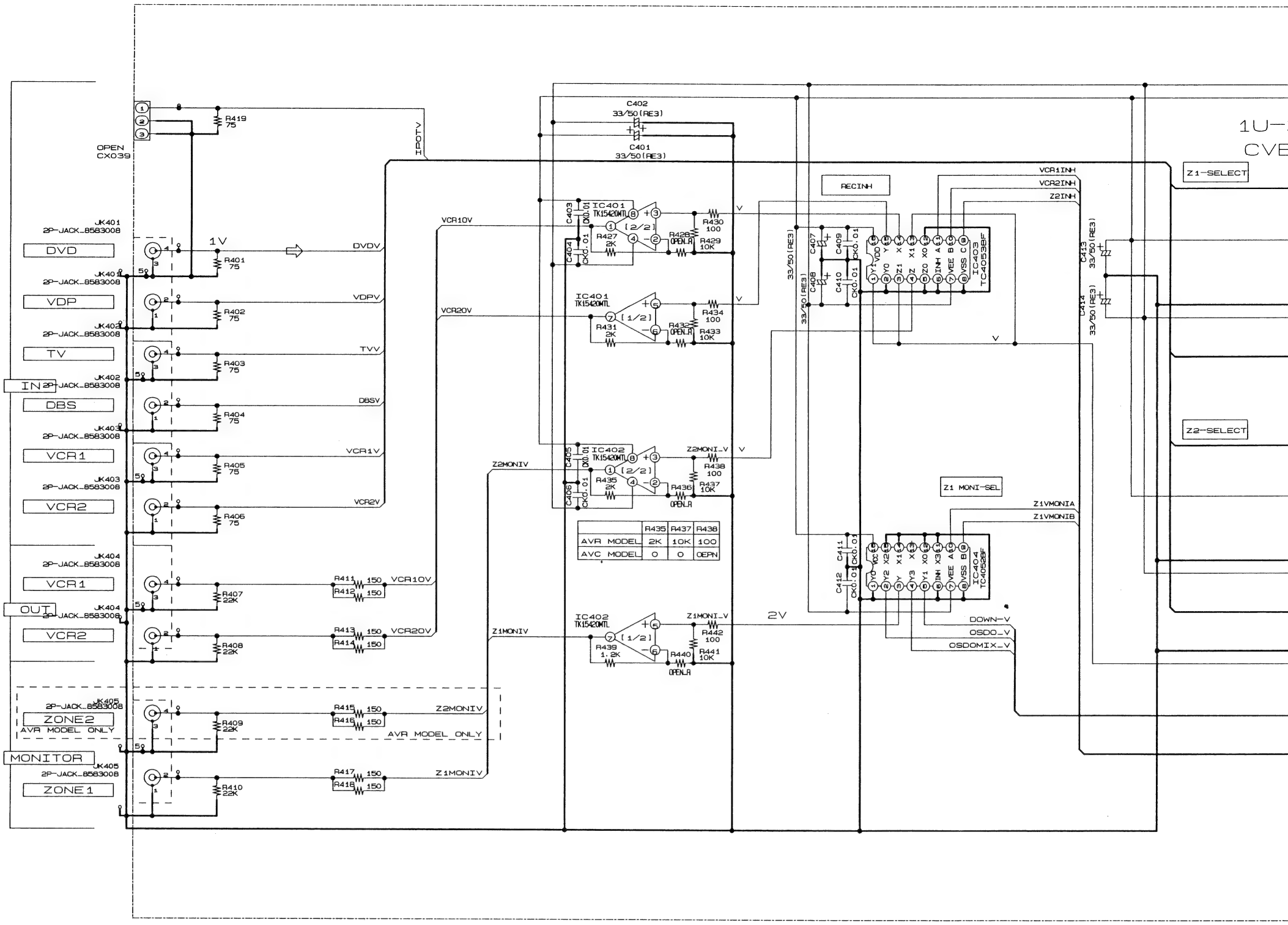


SCHEMATIC DIAGRAMS (9/31)

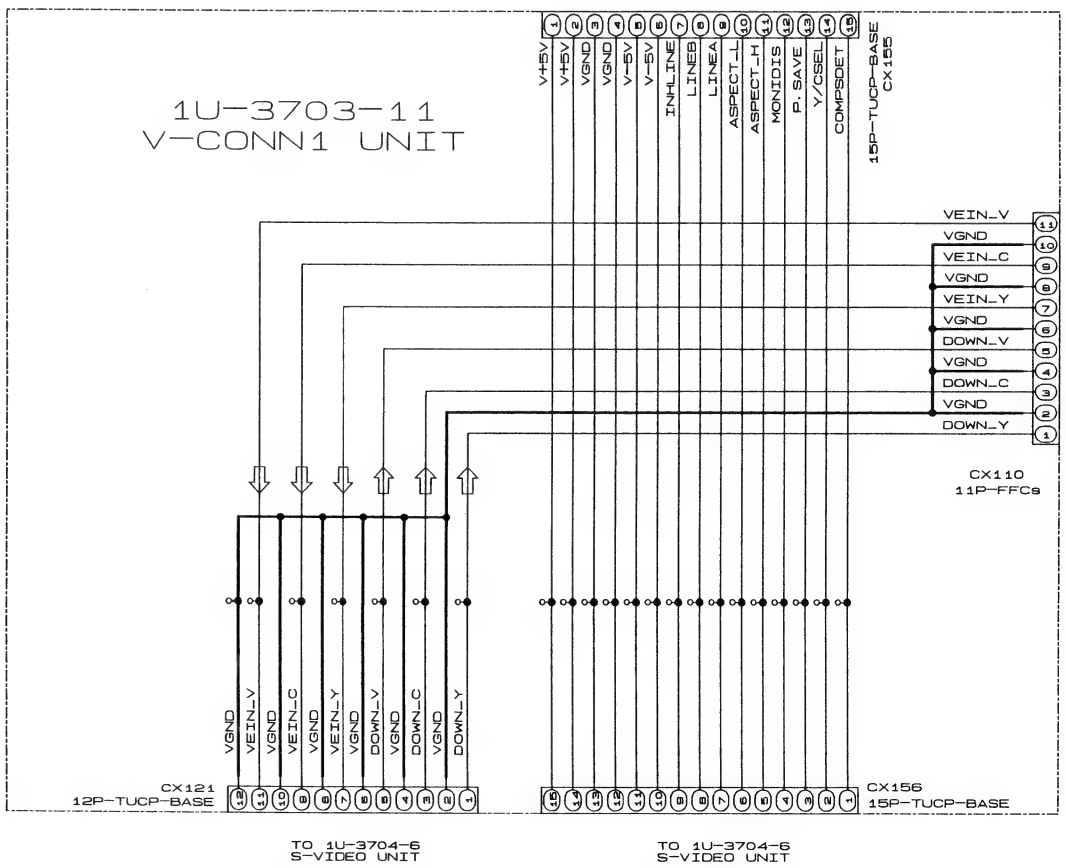
1U-3702-3 VOL AMP UNIT

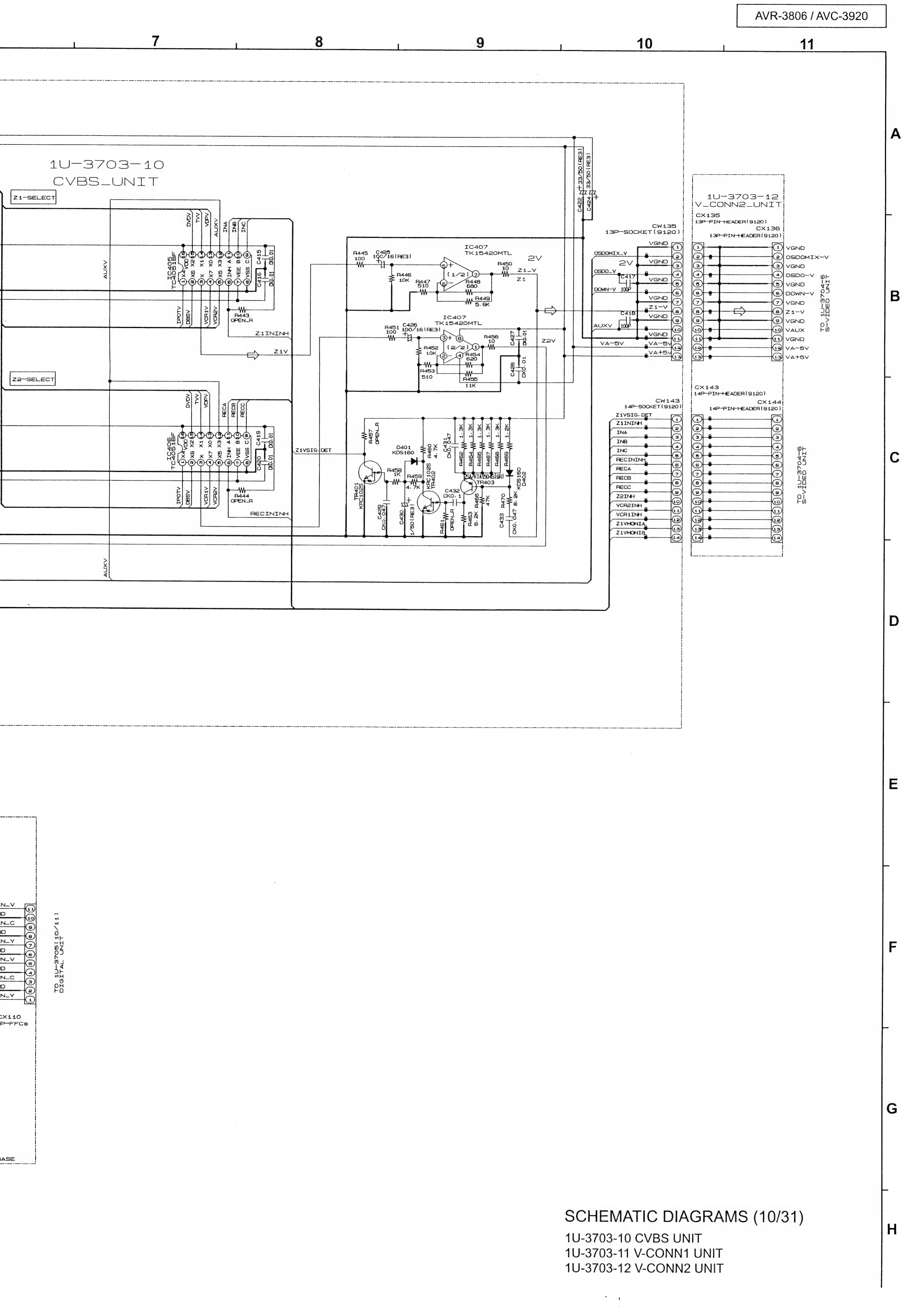
SCHEMATIC DIAGRAMS (10/31)

1 2 3 4 5 6



	R435	R437	R438
AVR MODEL	2K	10K	100
AVC MODEL	0	0	OEPN





SCHEMATIC DIAGRAMS (10/31)

1U-3703-10 CVBS UNIT
1U-3703-11 V-CONN1 UNIT
1U-3703-12 V-CONN2 UNIT

SCHEMATIC DIAGRAMS (11/31)

1 2 3 4 5 6

1U-3703-13
232C_UNIT

RS-232C
JK705
9P-SSUB-CONN
FB714 0
FB715 0
R705 1K
R706 1K
C722 100P
C723 CK0.01
C708 CK0.1
C726 100P
C724 100P
C725 100P
C712 0.1/50
10/16 C716
C715 CK0.1
C713 0.1/50
C714 0.1/50
C707 0.1/50
R714 1K
R715 1K
HIN202EIBNZ-T
IC705
VCC GND T1OUT R1IN R1OUT T1IN

AVR MODEL ONLY
ROOM to ROOM REMOCON IN
JK701 MINI JACK
ROOM to ROOM REMOCON OUT
JK702 MINI JACK
C703 CK0.1
C701 CK1000P
ZD701 UDZS6.2B
R701 1K
FB709 0
R710 39K
C710 1/50
R709 1K
C706 100P
C709 CK0.01
R708 470
IC701 CXA1511M
R707 200K
C702 33/10
C704 CK0.01
R704 22
R702 22
TR701 KRA104S
AVR MODEL ONLY

TRIGGER OUT1
JK703 MINI JACK
TRIGGER OUT2
JK704 MINI JACK
FB705 0
C705 CK0.1
ZD702 UDZS16B
FB713 0
C718 CK0.1
ZD703 UDZS16B
R703 0
C717 CK0.1
C711 CK0.1
TR704 KRA104S
TR702 KRC104S
TR705 KRA104S
TR703 KRC104S

JK804 2P-JACK
CD
JK805 2P-JACK
PHONO
FG
R825 100
R826 100
C805 330P
C806 330P
R827 100K
R828 100K
C856 10/35
C857 10/35
C858 OPEN_C
C859 OPEN_C
R891 91K
R892 91K
IC804 NJM2068MD (1/2)
IC804 NJM2068MD (2/2)
R893 47
R894 47
C878 33/25
C879 33/25
100K R895
100K R896
C890 CK0.1
C888 1/50
C889 CK0.1
R833 0
R835 390
L801 OPEN
C819 220P
C821 10/35
R837 68K
R839 150K
C817 OPEN_C
C818 OPEN_C
L802 OPEN
C820 220P
C822 10/35
R838 68K
R840 150K
R834 0
R836 390
R842 47
IC802 NJM2068MD (1/2)
IC802 NJM2068MD (2/2)
R841 47
C823 100P
C825 220/6.3(SMA)
C824 220/6.3(SMA)
C826 100P
R843 240
R844 240
R845 130K
R846 130K
R847 11K
R848 11K
R849 22
R850 22
R851 47
R852 47
C831 10/35
C832 10/35
R853 47K
R854 47K
C845 10/35
C846 10/35
C827 C000.022
C828 C000.0068
C829 C000.022
C830 C000.0068
C891 OPEN
C892 OPEN
C893 OPEN
C894 OPEN

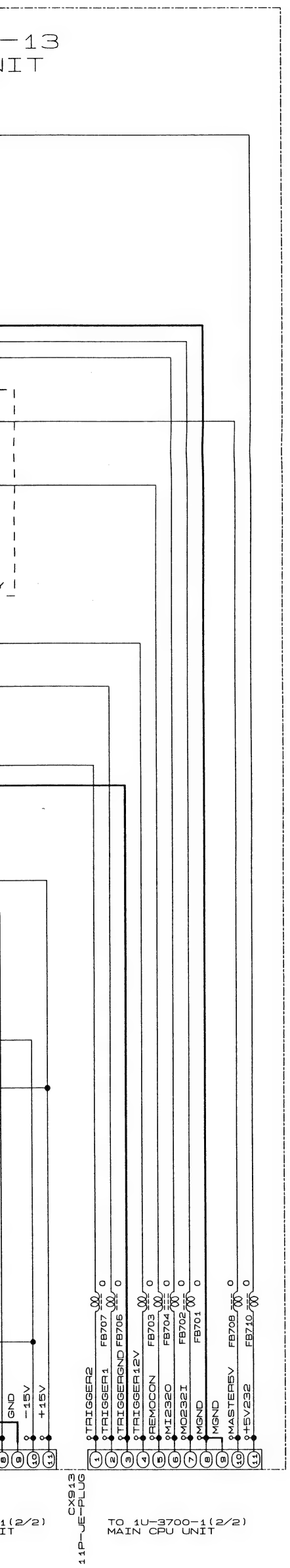
AVR3806	L801. 802	R833. 834	FB704. 708
*USA CANADA	OPEN	0	0
EUROPE ASIA	FTZ CHOKE COIL	4.7K	0
JAPAN	OPEN	0	OPEN

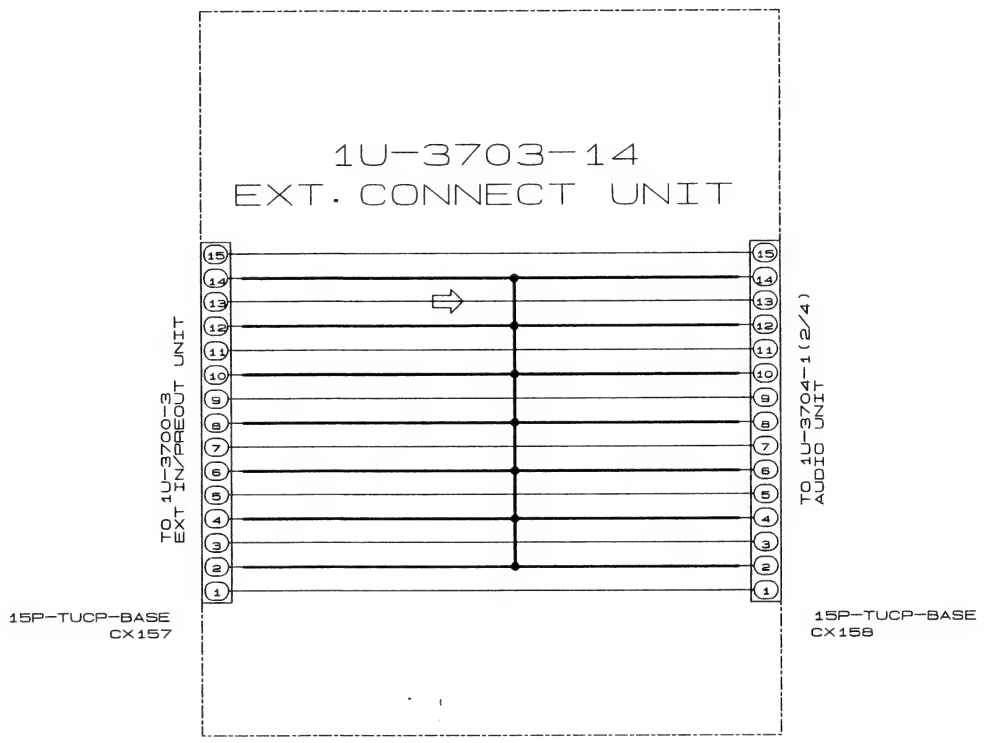
GND PHONOR GND PHONOL GND CDR GND CDL GND -15V +15V
CX912 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

TRIGGER2 TRIGGER1 TRIGGERGND TRIGGER12V REMOCON MI2320 MO232I MGND MGND MASTER5V
FB707 0 FB706 0 FB703 0 FB704 0 FB702 0 FB701 0 FB708 0
CX913 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

6 7 8 9 10 11

A B C D E F G H



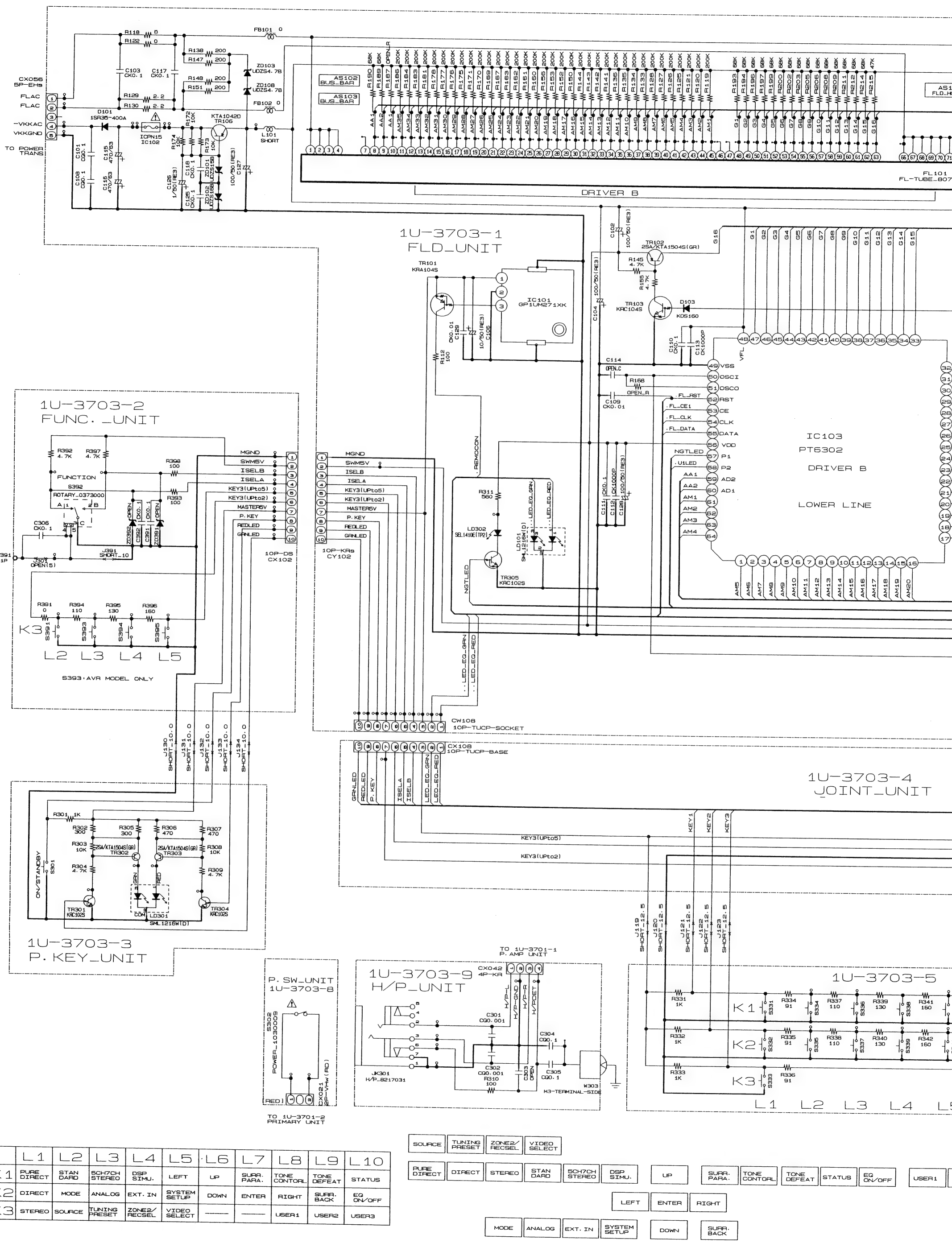


SCHEMATIC DIAGRAMS (11/31)

1U-3703-13 232C UNIT
1U-3703-14 EXT. CONNECT UNIT

SCHEMATIC DIAGRAMS (12/31)

1 2 3 4 5 6



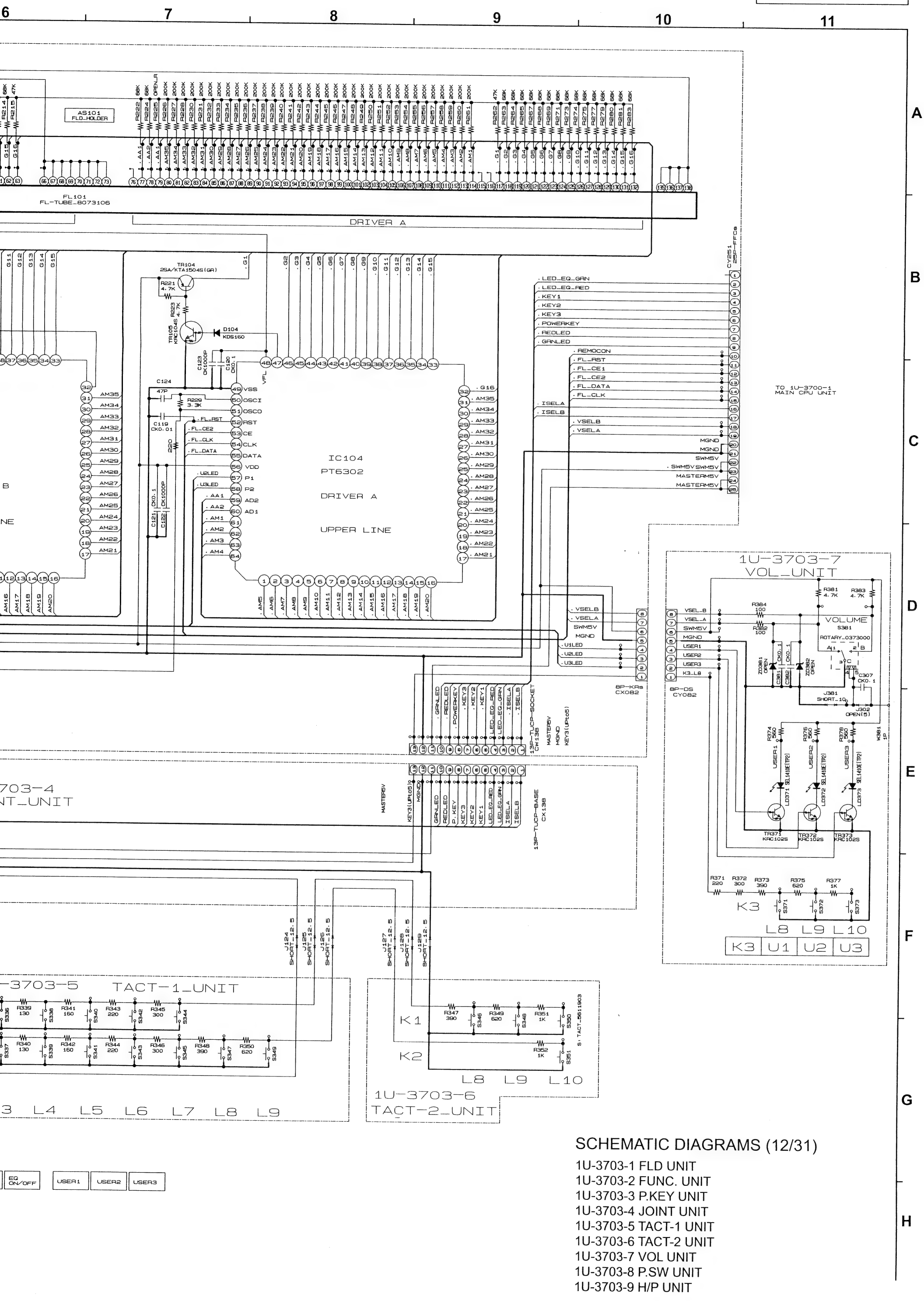
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
K1	PURE DIRECT	STAN DARD	6CH7CH STEREO	DSP SIMU.	LEFT	UP	SURR. PARA.	TONE CONTORL	TONE DEFEAT	STATUS
K2	DIRECT	MODE	ANALOG	EXT. IN	SYSTEM SETUP	DOWN	ENTER	RIGHT	SURR. BACK	EQ ON/OFF
K3	STEREO	SOURCE	TUNING PRESET	ZONE2/ RECSEL	VIDEO SELECT	———	———	USER1	USER2	USER3

SOURCE | TUNING PRESET | ZONE2/ RECSEL | VIDEO SELECT

PURE DIRECT | DIRECT | STEREO | STAN DARD | 5CH7CH STEREO | DSP SIMU. | UP | SURR. PARA. | TONE CONTORL | TONE DEFEAT | STATUS | EQ ON/OFF | USER1

LEFT | ENTER | RIGHT

MODE | ANALOG | EXT. IN | SYSTEM SETUP | DOWN | SURR. BACK

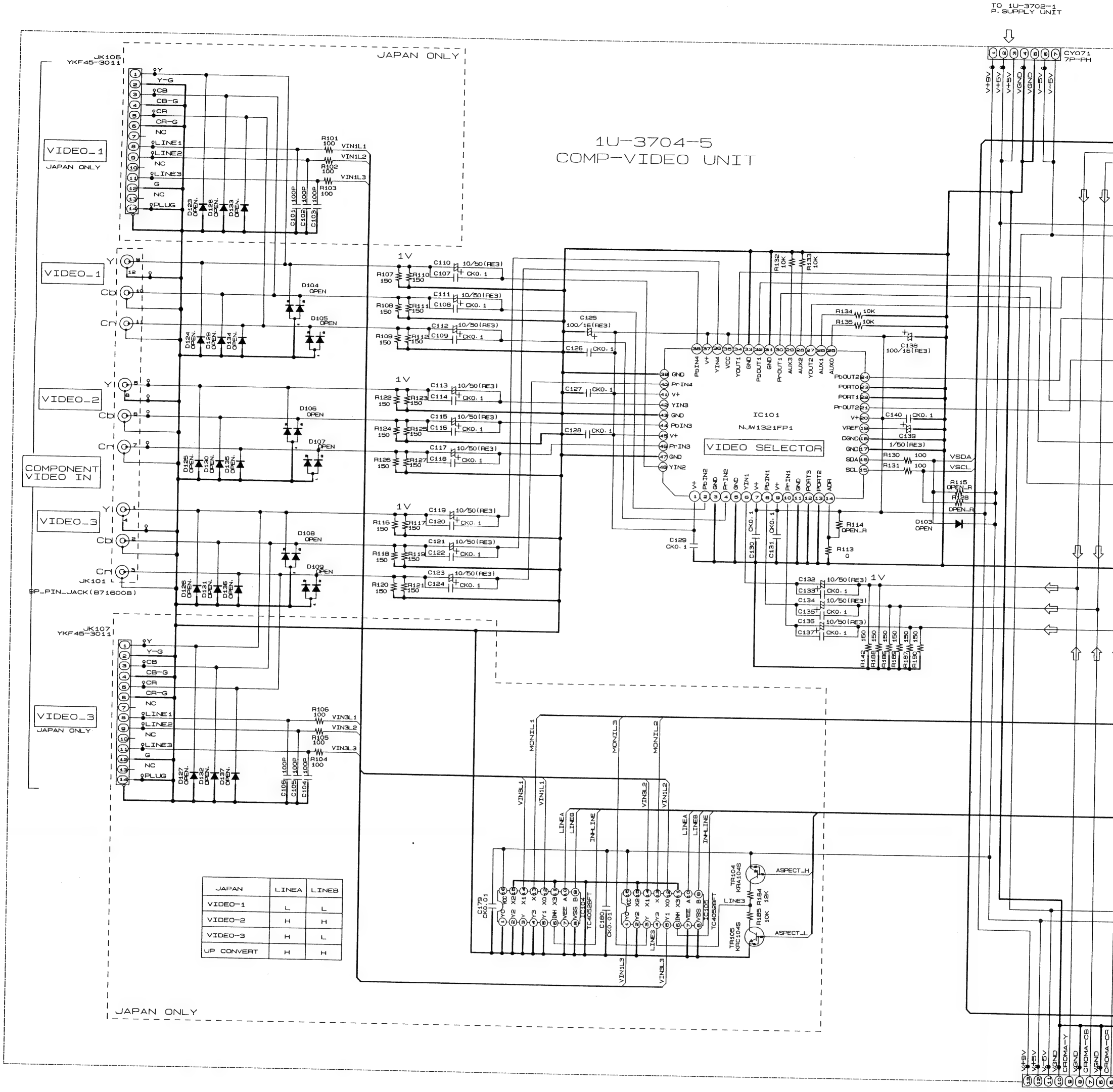


SCHEMATIC DIAGRAMS (12/31)

1U-3703-1 FLD UNIT
1U-3703-2 FUNC. UNIT
1U-3703-3 P.KEY UNIT
1U-3703-4 JOINT UNIT
1U-3703-5 TACT-1 UNIT
1U-3703-6 TACT-2 UNIT
1U-3703-7 VOL UNIT
1U-3703-8 P.SW UNIT
1U-3703-9 H/P UNIT

SCHEMATIC DIAGRAMS (13/31)

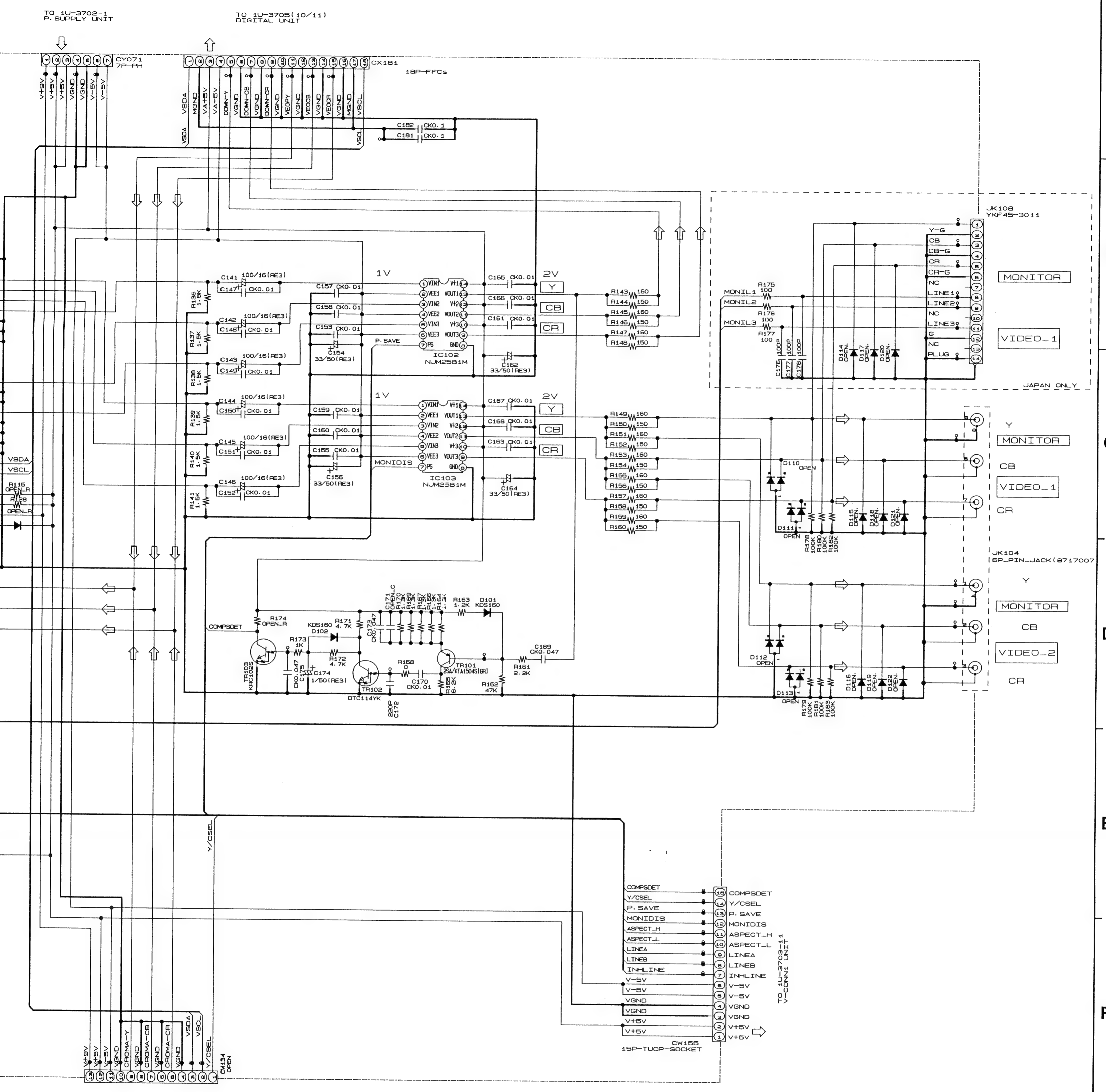
1 2 3 4 5 6



JAPAN	LINEA	LINEB
VIDEO-1	L	L
VIDEO-2	H	H
VIDEO-3	H	L
UP CONVERT	H	H

6 7 8 9 10 11

A B C D E F G H



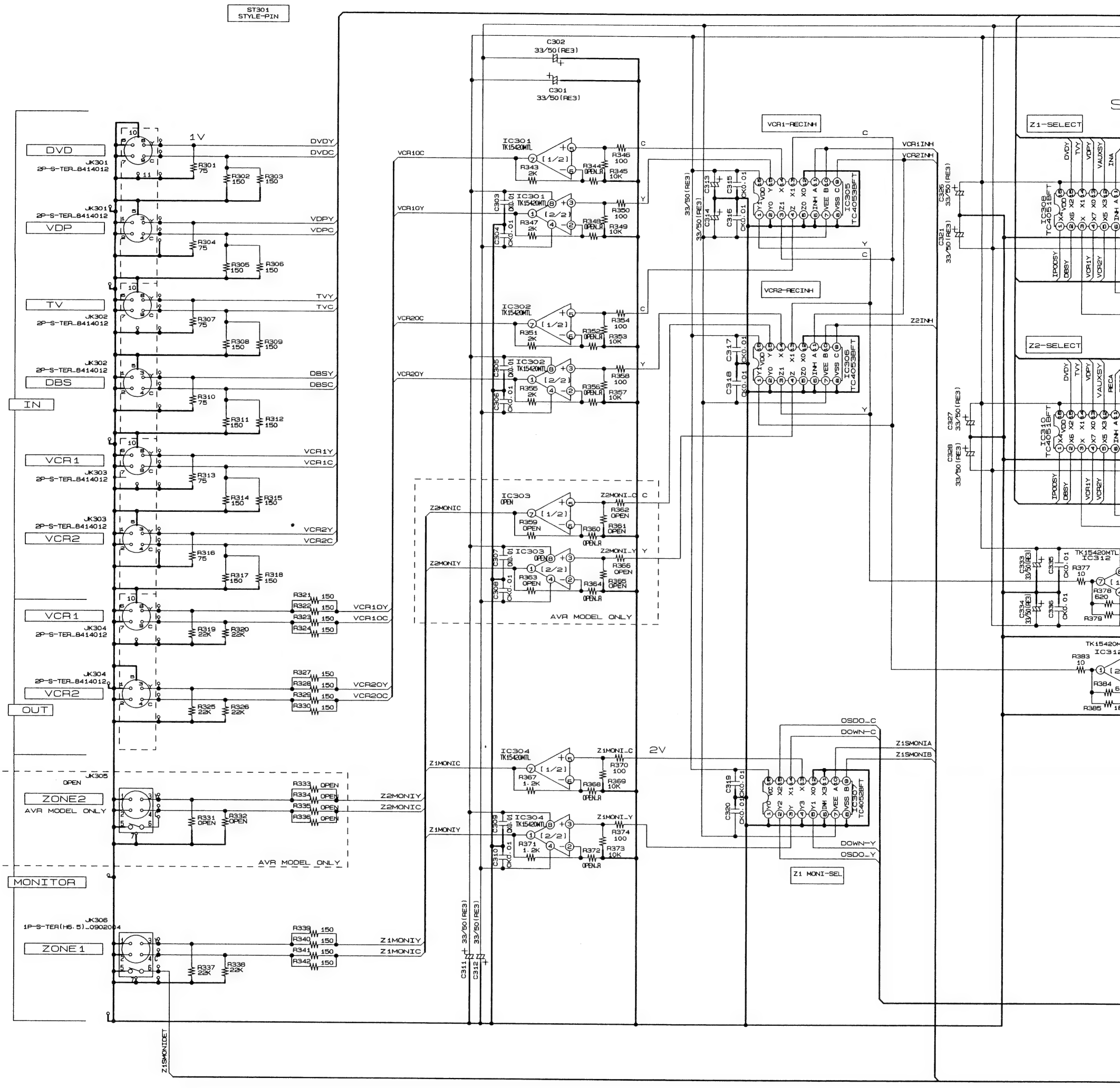
COMPONENT VIDEO

SCHEMATIC DIAGRAMS (13/31)

1U-3704-5 COMP-VIDEO UNIT

SCHEMATIC DIAGRAMS (14/31)

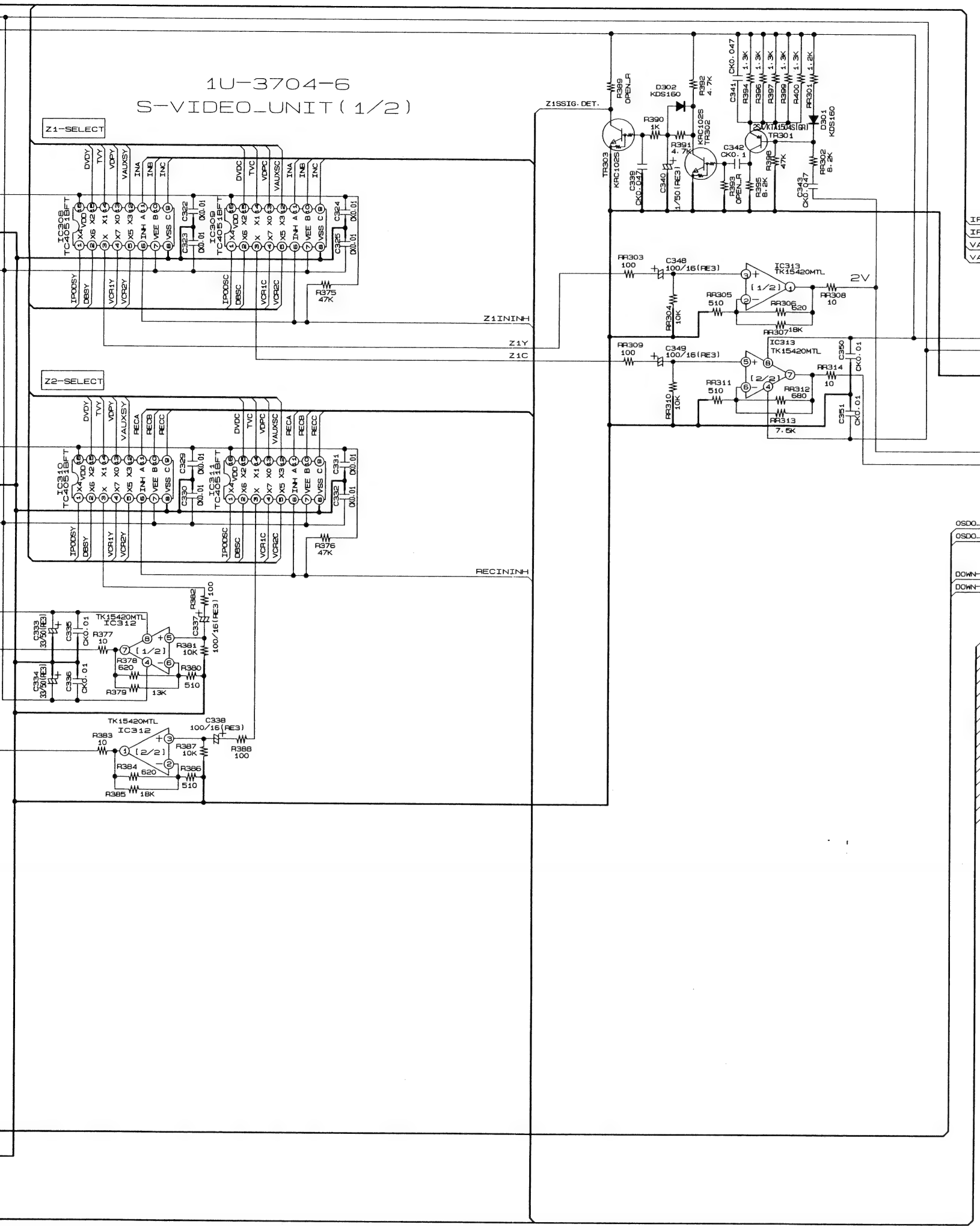
1 2 3 4 5 6



7 8 9 10 11

A B C D E F G H

1U-3704-6
S-VIDEO_UNIT(1/2)



TO 1U-3704-6(2/2)

SCHEMATIC DIAGRAMS (14/31)

1U-3704-6 S-VIDEO UNIT(1/2)

2 3 4 5 6 7

	O	1	COM
Y	Z1SY	Z1CVBS	TO OSD
X	GND	OSDOUT	SYOUT
Z	Z1SC	GND	SCOUT

TO 1U-3704-6(1/2)

TO 1U-3703-12 V-CONN2 UNIT

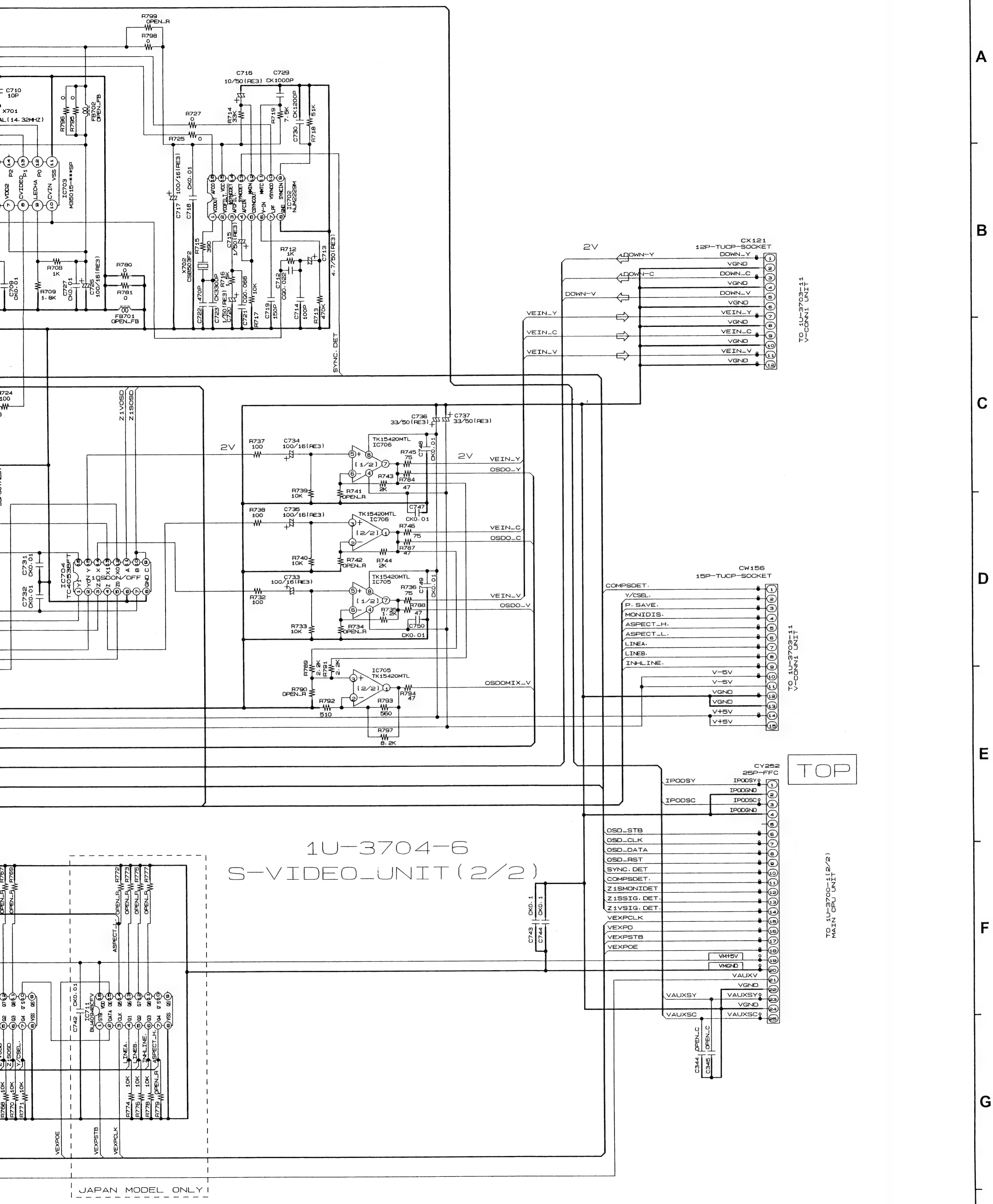
CW136
13P-SOCKET(9120)

CW144
14P-SOCKET(9120)

JAPAN MODEL ONLY

6 7 8 9 10 11

A B C D E F G H



SCHEMATIC DIAGRAMS (16/31)

1 2 3 4 5 6

IN

OUT

CX932 OPEN
IPOD
JK401 4P-JACK_8545004
DVD
JK402 4P-JACK_8545004
TV
JK403 4P-JACK_8545004
VCR-1
JK404 4P-JACK_8545004
TAPE
CX034 3P-PH(BU)
VAUX
TO 1U-3700-4 PRE CONNECT2 UNIT
JK405 4P-JACK_8545004
VCR-2
TAPE
C.GND
IC417 NJM2068MD
IC407 NJM2068MD
IC408 LM833MX
IC409 NJM2068MD
IC410 NJM2068MD
IC411 NJM2068MD
IC412 NJM2068MD
IC413 NJM2068MD
IC414 NJM2068MD
IPODL
IPODR
VAUXL
VAUXR
DVDL
DVDR
VDPL
VDPR
TVL
TVR
DBSL
DBSR
VCR1L
VCR1R
VCR2L
VCR2R
TAPEL
TAPER
V1RECL
V1RECR
V2RECL
V2RECR
TRECL
TRECR
*CC481, 482
USA/CANADA: 10/50
ASIA/EUROPE: 47/50
JAPAN: 47/50
*CC401, 402
USA/CANADA: 10/50
ASIA/EUROPE: 10/100
JAPAN: 10/100
CW115
11P-TUCP-SOCKET
TO 1U-3700-1(2/2)
MAIN CPU UNIT
TO 3700-4
PRE CONNECT2 UNIT
CX053
5P-PH(RD)
MICDET
MIC_GND
MICIN
MIC-15
MIC+15
R455 100
R458 0
LCH
RCH
IC406
TC94A46FG
ZONE3
ZONE2
ZONE1
CDL
TU-L
PHONOL
PHONOR
TU-R
CDR
+15V
CS2
STB
DATA
CLK
GND
CS1
-15V
C438 OPEN_C
C439 10/50(RE3)
C440 10/50(RE3)
IC401 TC9273N-015
FSTB2
FDATA
FCLK
C435 OPEN_C
CX935
3P-SAN
TUNER
IC415 NJM2068MD
R477 OPEN_R
R403 47
R469 OPEN_R
R401 100K
R405 91K
R407 100K
R409 100
R456 0
R457 0
R470 OPEN_R
R402 100K
R406 91K
R408 100K
R410 100
R478 OPEN_R
C403 33/50(RE3)
C404 33/50(RE3)
C405 OPEN_C
C406 OPEN_C
C433 10/50(RE3)
C434 10/50(RE3)
330P C436
330P C437

	C433 C434	R477 R478	R407 R408	C436 C437	C409 C410
AVR_MODEL	10/50	OPEN	100K	330P	100
AVC_MODEL	OPEN	0	OPEN	OPEN	0

1U-3704-1(1/4) AUDIO_UNIT(1/4)

TO 1U-3704-1(2/4)

TO 1U-3700-1(2/2) MAIN CPU UNIT

	R479 R480
AVR_MODEL	0
AVC_MODEL	OPEN

	R481 R482
AVR_MODEL	OPEN
AVC_MODEL	0

	R407 R408	C436 C437	C409 C410
AVR_MODEL	100K	330P	100
AVC_MODEL	OPEN	OPEN	0

ST201 STYLE-PIN
ST202 STYLE-PIN
ST203 OPEN
ST204 OPEN

CW951 5P-TUCP-SOCKET

AVR_MODEL ONLY

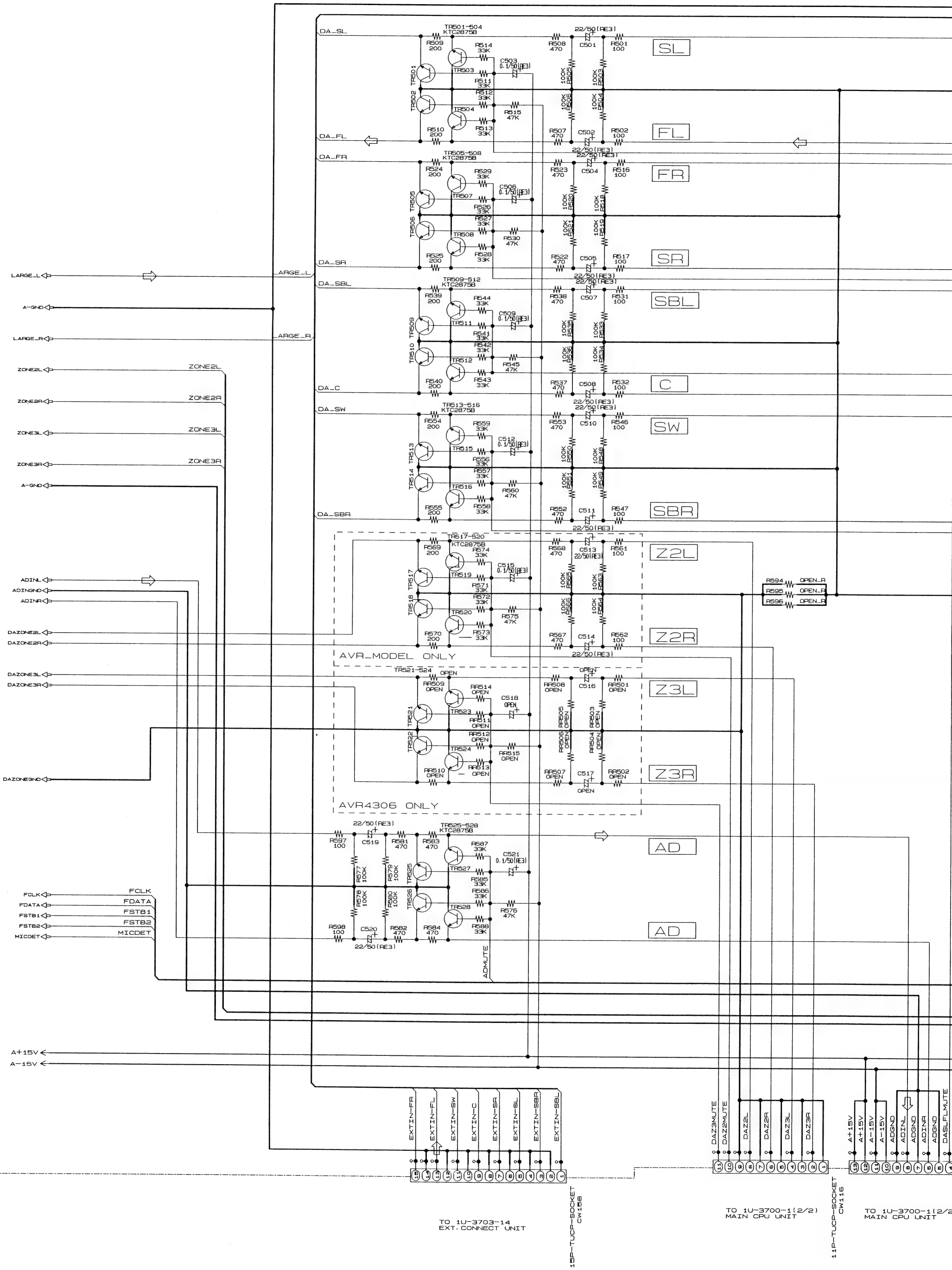
SCHEMATIC DIAGRAMS (16/31)

1U-3704-1 AUDIO UNIT(1/4)

SCHEMATIC DIAGRAMS (17/31)

1 2 3 4 5 6

TO 1U-3704-1(1/4)



6 7 8 9 10 11

A B C D E F G H

1U-3704-1(2/4)
AUDIO UNIT(2/4)

RR519 0
RR520 0
RR521 0
RR522 OPEN_R
RR523 OPEN_R
RR524 OPEN_R

VOLINFL VOLINC VOLINSL VOLINSBL

LARGE_L DA_FL EXTIN-FL DA_C EXTIN-C DA_SL EXTIN-SL BI-AMPL DA_SBL EXTIN-SBL ZONE2L ZONE3L

FCLK

C522 OPEN_C

IC501 TC9274N-017

FDATA
FSTB2

LARGE_R DA_FR EXTIN-FR DA_SW EXTIN-SW DA_SR EXTIN-SR BI-AMPR DA_SBR EXTIN-SBR ZONE2R ZONE3R

VOLINFR VOLINSW VOLINSR VOLINSBR

*C525, 526
USA/CANADA : 10/50
ASIA/EUROPE : 10/100
JAPAN : 10/100

C523 OPEN_C
C524 OPEN_C
C525 22
C526 22
10/50 (RE3)

A-GND
VOLINSL → VOLINSL
VOLINFL → VOLINFL
VOLINFR → VOLINFR
VOLINSR → VOLINSR
VOLINSBL → VOLINSBL
VOLINC → VOLINC
VOLINSW → VOLINSW
VOLINSBR → VOLINSBR

TO 1U-3704-1(3/4)

ZONE2L → ZONE2L
ZONE2R → ZONE2R
ZONE3L → ZONE3L
ZONE3R → ZONE3R
A-GND

FCLK → FCLK
FDATA → FDATA
FSTB1 → FSTB1
FSTB2 → FSTB2
ADMUTE → ADMUTE
MICDET → MICDET

TO 1U-3704-1(3/4)

A+15V
A-15V

DAZ3R

A+15V A+15V A-15V A-15V ADGND ADINL ADGND ADINR ADGND DASLFLMUTE DAFRSRMUTE DASBLCMUTE DASBRSWMUTE

DASL DA-AGND DAFL DA-AGND DAFR DA-AGND DASR DA-AGND DASBL DA-AGND DAC DA-AGND DASW DA-AGND DASBR

11P-TUCP-SOCKET CW116

TO 1U-3700-1(2/2)
MAIN CPU UNIT

13P-TUCP-SOCKET CW133

TO 1U-3700-1(2/2)
MAIN CPU UNIT

15P-TUCP-SOCKET CW154

SCHEMATIC DIAGRAMS (17/31)

1U-3704-1 AUDIO UNIT(2/4)

SCHEMATIC DIAGRAMS (18/31)

1 2 3 4 5 6

	IC207 IC208 IC209 IC210	C205-208 C217-220 C231-234 C243-246	R209,210,213,214 R233,234,237,238 R257,258,261,262 R281,282,285,286	C211,212 C223,224 C237,238 C249,250
USA/DANADA	SA5532	3.3/50	OPEN	10/50
ASIA/EUROPE	AD8512	OPEN	0	10/100
JAPAN	AD8512	OPEN	0	10/100

TO 1U-3704-1(2/4)

A-GND
VOLINSL
VOLINFL
VOLINFR
VOLINSR
VOLINSBL
VOLINC
VOLINSW
VOLINSBR
ZONE2L
A-GND
ZONE2R
ZONE3L
ZONE3R
FCLK
FDATA
FSTB1
FSTB2
ADMUTE
MICDET
A+15V
A-15V

R297 0 R298 0 R299 0

R219 0 R220 0 R221 0
R243 0 R244 0 R245 0
R267 0 R268 0 R269 0
R291 0 R292 0 R293 0

C201 22/50(RE3) R201 100K R203 100K R202 100K R204 100K C202 22/50(RE3)
C213 22/50(RE3) R225 100K R227 100K R226 100K R228 100K C214 22/50(RE3)
C227 22/50(RE3) R249 100K R251 100K R250 100K R252 100K C228 22/50(RE3)
C239 22/50(RE3) R273 100K R275 100K R274 100K R276 100K C240 22/50(RE3)

E.VOL_CLK
E.VOL_DATA
E.VOL_STBB

C225 OPEN_C
C226 OPEN_C
C251 OPEN_C
C252 OPEN_C

IC201 TC9442A32F
IC202 TC9442A32F
IC203 TC9442A32F
IC204 TC9442A32F

C205 3.3/50(RE3) 47/25(RE3) C203 R205 OPEN_A R209 OPEN_A R207 130K R211 470K C207 3.3/50(RE3) C204 47/25(RE3) R206 OPEN_A R210 OPEN_A R208 130K R212 470K C206 3.3/50(RE3)
C217 3.3/50(RE3) 47/25(RE3) C215 R229 OPEN_A R233 OPEN_A R231 130K R235 470K C219 3.3/50(RE3) C216 47/25(RE3) R230 OPEN_A R234 OPEN_A R232 130K R236 470K C218 3.3/50(RE3)
C231 3.3/50(RE3) 47/25(RE3) C229 R253 OPEN_A R257 OPEN_A R255 130K R259 470K C233 3.3/50(RE3) C230 47/25(RE3) R254 OPEN_A R258 OPEN_A R256 130K R260 470K C232 3.3/50(RE3)
C243 3.3/50(RE3) 47/25(RE3) C241 R277 OPEN_A R281 OPEN_A R279 130K R283 470K C245 3.3/50(RE3) C242 47/25(RE3) R278 OPEN_A R282 OPEN_A R280 130K R284 470K C244 3.3/50(RE3)

SA5532ADR IC207 [1/2] R217 100 R213 OPEN_A C209 5P R215 470K C208 3.3/50(RE3) R216 470K R214 OPEN_A C210 5P R218 100 [2/2] IC207 SA5532ADR
SA5532ADR IC208 [1/2] R241 100 R237 OPEN_A C221 5P R239 470K C220 3.3/50(RE3) R240 470K R238 OPEN_A C222 5P R242 100 [2/2] IC208 SA5532ADR
SA5532ADR IC209 [1/2] R265 100 R261 OPEN_A C235 5P R263 470K C234 3.3/50(RE3) R264 470K R262 OPEN_A C236 5P R266 100 [2/2] IC209 SA5532ADR
SA5532ADR IC210 [1/2] R289 100 R285 OPEN_A C247 5P R287 470K C246 3.3/50(RE3) R288 470K R286 OPEN_A C248 5P R290 100 [2/2] IC210 SA5532ADR

W201 W202 W203 W204 W205 W206 W207 W208

SL FL FR SR SBL C SW SBR

C211 10/50(RE3) C212 10/50(RE3) R222 0 R223 0 R224 0
C223 10/50(RE3) C224 10/50(RE3) R246 0 R247 0 R248 0
C237 10/50(RE3) C238 10/50(RE3) R270 0 R271 0 R272 0
C249 10/50(RE3) C250 10/50(RE3) R294 0 R295 0 R296 0

AVR_MODEL ONLY

C253 10/50(RE3) RA201 47K C255 OPEN_C RA202 47K C254 10/50(RE3)
C261 10/50(RE3) RA207 47K C257 100P C258 100P RA208 47K C262 10/50(RE3)
RA213 100 C265 OPEN_C RA221 4.3K RA215 820 C269 330P RA216 820 C270 330P C268 OPEN_C RA222 4.3K RA211 100
RA225 100 RA229 100K RA230 100K RA226 100
C273 10/50(RE3) C274 10/50(RE3)
RA236 0 RA237 0 RA238 0
IC205 TC9459BFG
IC205 BA15218F

ZONE2L ZONE2R

RA251 0 C266 OPEN RA203 OPEN_R RA270 0 C263 OPEN. RA205 0 C259 OPEN_C RA209 OPEN_R RA210 OPEN_R C260 OPEN_C RA206 0 C264 OPEN. RA271 0 C267 OPEN. RA252 0 RA204 OPEN_R
RA214 0 RA217 0 RA220 0 RA212 0 RA227 0 RA223 0 RA231 OPEN_R RA218 OPEN_R C271 OPEN_C RA219 OPEN_R C272 OPEN_C RA224 0 RA228 0 RA232 OPEN_R
C275 OPEN C276 OPEN
RA239 0 RA240 0 RA241 0
IC211 OPEN
IC212 OPEN

ZONE3L ZONE3R

RA245 0 RA246 0 RA247 0 RA248 OPEN_R RA249 OPEN_R RA250 OPEN_R
OPEN W209
C256 OPEN_C
OPEN

RA233 0 RA234 0 RA235 0

6 7 8 9 10 11

A B C D E F G H

1U-3704-1(3/4)
AUDIO_UNIT(3/4)

CW153
15P-TUCP-SOCKET

PREFL 1
PREGND 2
PREFR 3
PREGND 4
PREC 5
PREGND 6
PRESW 7
PREGND 8
PRESL 9
PREGND 10
PRESR 11
PREGND 12
PRESBL 13
PREGND 14
PRESBR 15

TO 1U-3702-4
PRE CONNECT UNIT

CW974
7P-TUCP-SOCKET

PREZ2L 1
PREGND 2
PREZ2R 3
PREGND 4
PREZ3L 5
PREGND 6
PREZ3R 7

TO 1U-3702-4
PRE CONNECT UNIT

AMPGND → AMPGND
AMPFL → AMPFL
AMPFR → AMPFR
AMPC → AMPC
AMPSL → AMPSL
AMPSR → AMPSR
AMPSBL → AMPSBL
AMPSBR → AMPSBR

TO 1U-3704-1(4/4)

PRERETGND
A+15V
A-15V
HIGH+B

ASIGDET
A+BLIMIT
LIMIT

TO 1U-3704-1(4/4)

ASIGDET1 16
MICDET 15
ADMUTE 14
FSTB2 13
FSTB1 12
FDATA 11
FCLK 10
E.VOL_CLK 9
E.VOL_DATA 8
E.VOL_STBA 7
E.VOL_STBB 6
A+BLIMIT 5
LIMIT 4
PRECPUGND 3
PRECPUGND 2
HIGH+B(MUTE) 1

16P-TUCP-SOCKET
CW162

TO 1U-3700-1(2/2)
MAIN CPU UNIT

W501 OPEN
W502 OPEN

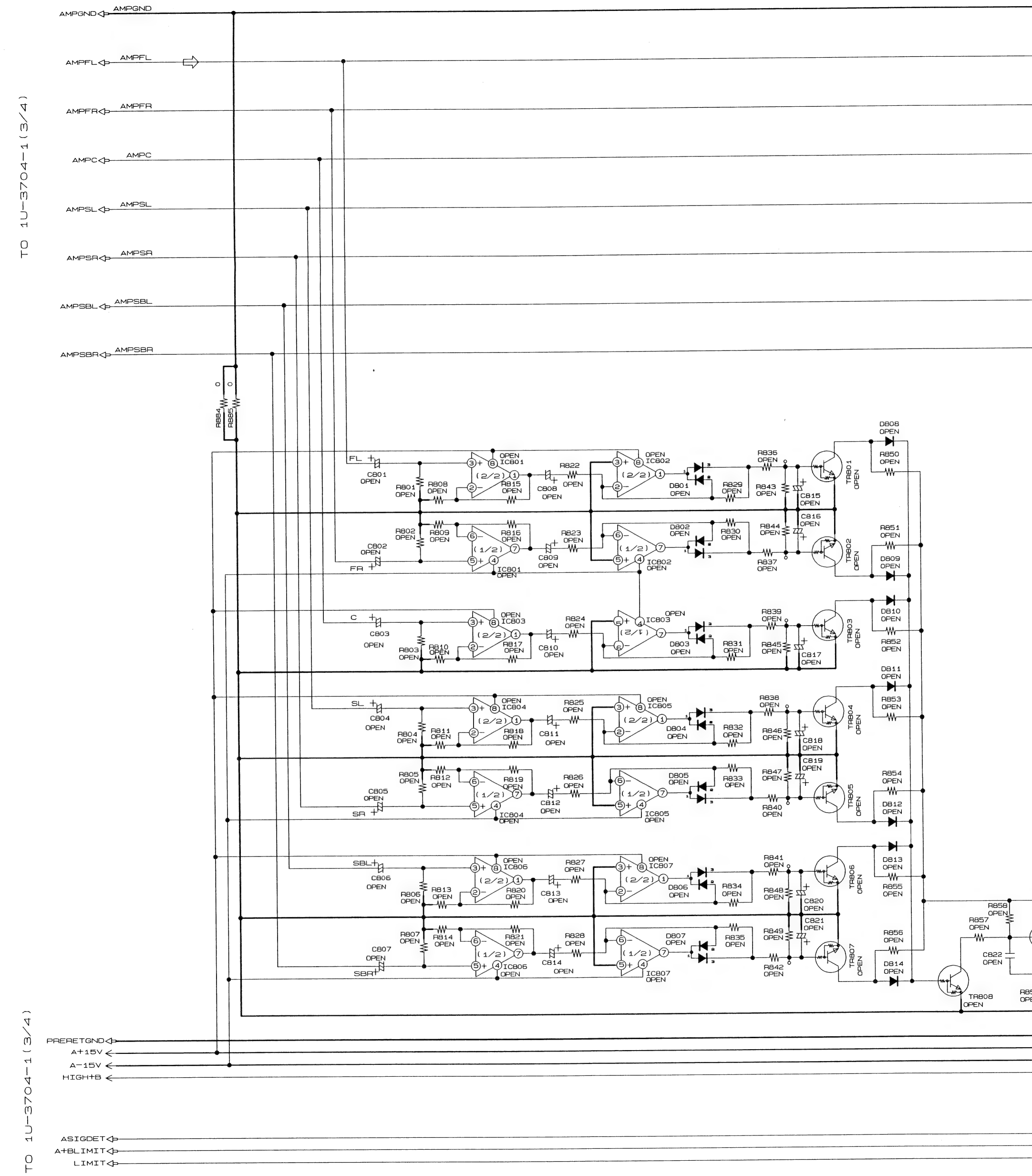
RR233 0
RR234 0
RR235 0

SCHEMATIC DIAGRAMS (18/31)

1U-3704-1 AUDIO UNIT(3/4)

SCHEMATIC DIAGRAMS (19/31)

1 2 3 4 5 6



6 7 8 9 10 11

1U-3704-1(4/4)
AUDIO UNIT(4/4)

D823 RB501V-40
D816 RB501V-40
D824 RB501V-40
D817 RB501V-40
D825 RB501V-40
D818 RB501V-40
D826 RB501V-40
D819 RB501V-40
D827 RB501V-40
D820 RB501V-40
D828 RB501V-40
D821 RB501V-40
D829 RB501V-40
D822 RB501V-40

CX145
14P-FJ-BASE
TO 1U-3700-4 PRE CONNECT2 UNIT

AMPGND 1
AMPFL 2
AMPGND 3
AMPFR 4
AMPGND 5
AMPC 6
AMPGND 7
AMPSL 8
AMPGND 9
AMPSR 10
AMPGND 11
AMPSBL 12
AMPGND 13
AMPSBR 14

CX914
11P-FJ-BASE
TO 1U-3700-4 PRE CONNECT2 UNIT

A+15V 1
A+15V 2
A-15V 3
A-15V 4
PRERETGND 5
PRERETGND 6
MUTEBGND 7
MUTEBGND 8
LIMIT+B 9
HIGH+B 10
11

	R875	R876
AVR3806	39	1.1K
AVC3920	0	1.5K

D808 OPEN
R850 OPEN
R851 OPEN
D809 OPEN
D810 OPEN
R852 OPEN
D811 OPEN
R853 OPEN
R854 OPEN
D812 OPEN
D813 OPEN
R855 OPEN
R856 OPEN
D814 OPEN
TR807 OPEN
TR808 OPEN
R857 OPEN
R858 OPEN
C822 OPEN
TR809 OPEN
R859 OPEN
ZD801 OPEN
C823 OPEN
R862 OPEN
R863 OPEN
R864 OPEN
R860 OPEN_R
R861 0
R882 OPEN_R
R883 OPEN_R

TR812 2SA/KTA1268BL
R870 10K
R871 10K
R868 10K
R869 10K
TR810 2SC/KTC3200BL
R874 510
R875 39
R876 1.1K
TR814 2SA/KTA1268BL
TR815 2SA/KTA1268BL
R872 2.2K
C825 4.7/50(RE3)
R877 22K(NB)
R879 560K
R873 560K
R865 2.2K
R866 2.2K
C824 CK0.01
TR813 2SD2144
R878 3.6K
TR816 2SC/KTC3200BL
R881 10K
R880 10K
D815 KDS160
R867 2.2K
C827 2.2/50(RE3)
C826 CK0.01
TR811 2SA/KTA1268BL

2 3 4 5 6 7

D. LINK INPUT

JK902
JACK_1222000

F_EXTIN
F_EXTIN
DLACK
C_EXTIN
C_EXTIN
DLACK
S_EXTIN
S_EXTIN

C932 OPEN_C
C933 OPEN_C
C934 OPEN_C

D903 OPEN
R931 0

W904 M3-TERMINAL-SIDE
W905 OPEN

1U-3704-2
D. LINK_UNIT
AVR3806 ONLY

R932 100 ZD904 NSAD500F
R933 100 ZD903 NSAD500F
R934 100 ZD902 NSAD500F
ZD901 NSAD500F

C937 10/50(RE3)
C935 100P
C936 CK1000P

IC914
SN65LVDS32PW
R936 100
R937 10K
R935 100
R938 100
R939 100
C938 100P
C939 CK1000P

IC915
SN65LVDS1DBV
VCC GND IN
DLACK.

DLINK_ON
DL1
DL2
DL3
DLACK.

CW117
11P-TUCP-SOCKET
TO 1U-3701-1(2/2)
MAIN CPU UNIT

FRONT V. AUX

CVBS
LCH
RCH

JK904
3P-JACK_8693008

IC916
GP1FM313RZ
OPT-5
VCC GND Vout

FRONT V. AUX

FRONT MICIN

JK905
MINI JACK

1U-
MI

TO 1U-3705(4/11)
DIGITAL UNIT

OPEN
CY937A

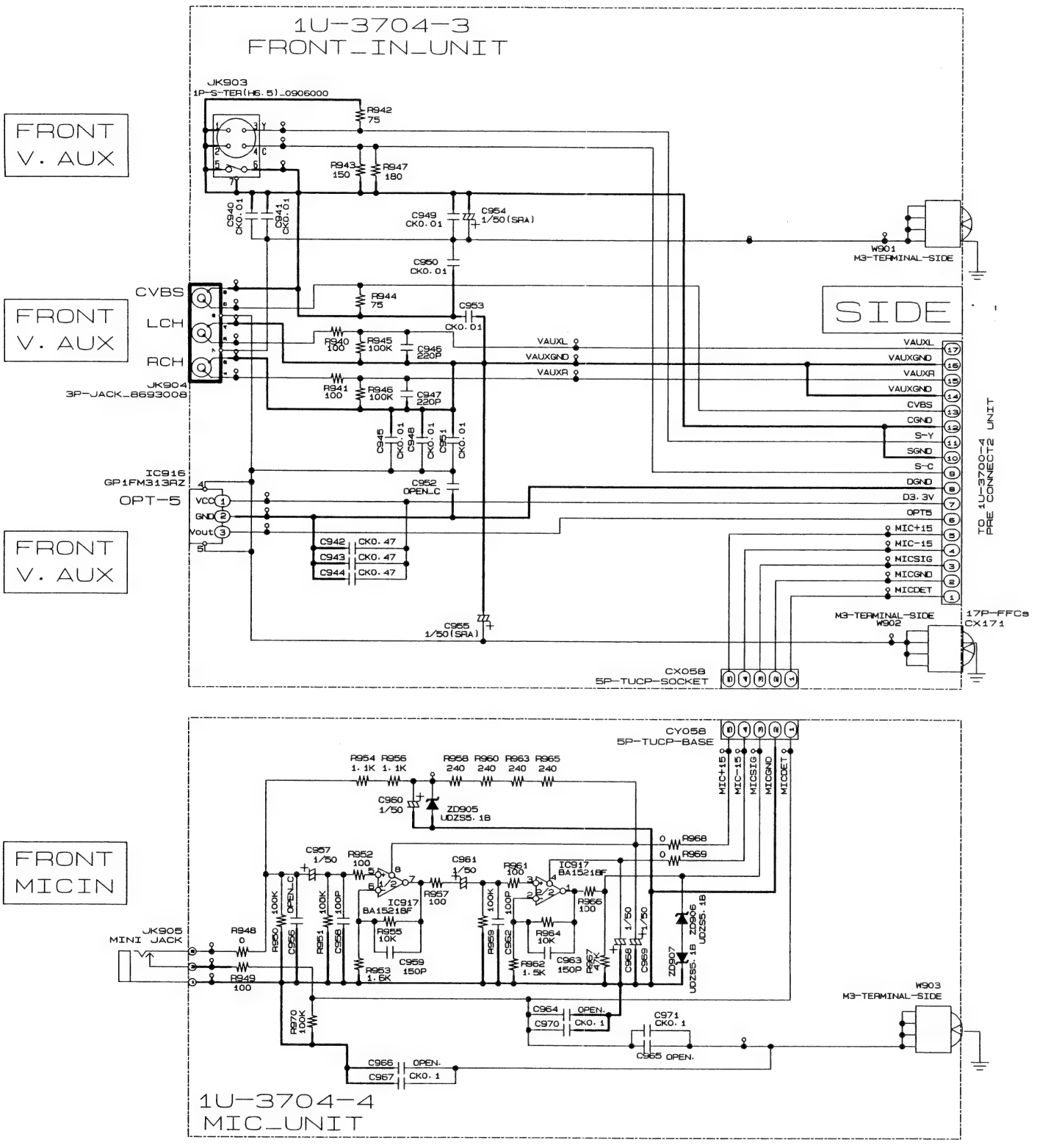
CY937
3P-ZH(SMD)

1U-3704-8
DSP_REG. UNIT

IC901
PQ012FZ01ZP
IN OUT GND BIAS ON

C907 330/6.3
C901 10/10(TA)
C902 100P
C903 100P
RR901 10K
C904 330/6.3
C905 10/10(TA)
C906 100P
RR902 4.7K

CW118
11P-TUCP-SOCKET
TO 1U-3701-1(2/2)
MAIN CPU UNIT

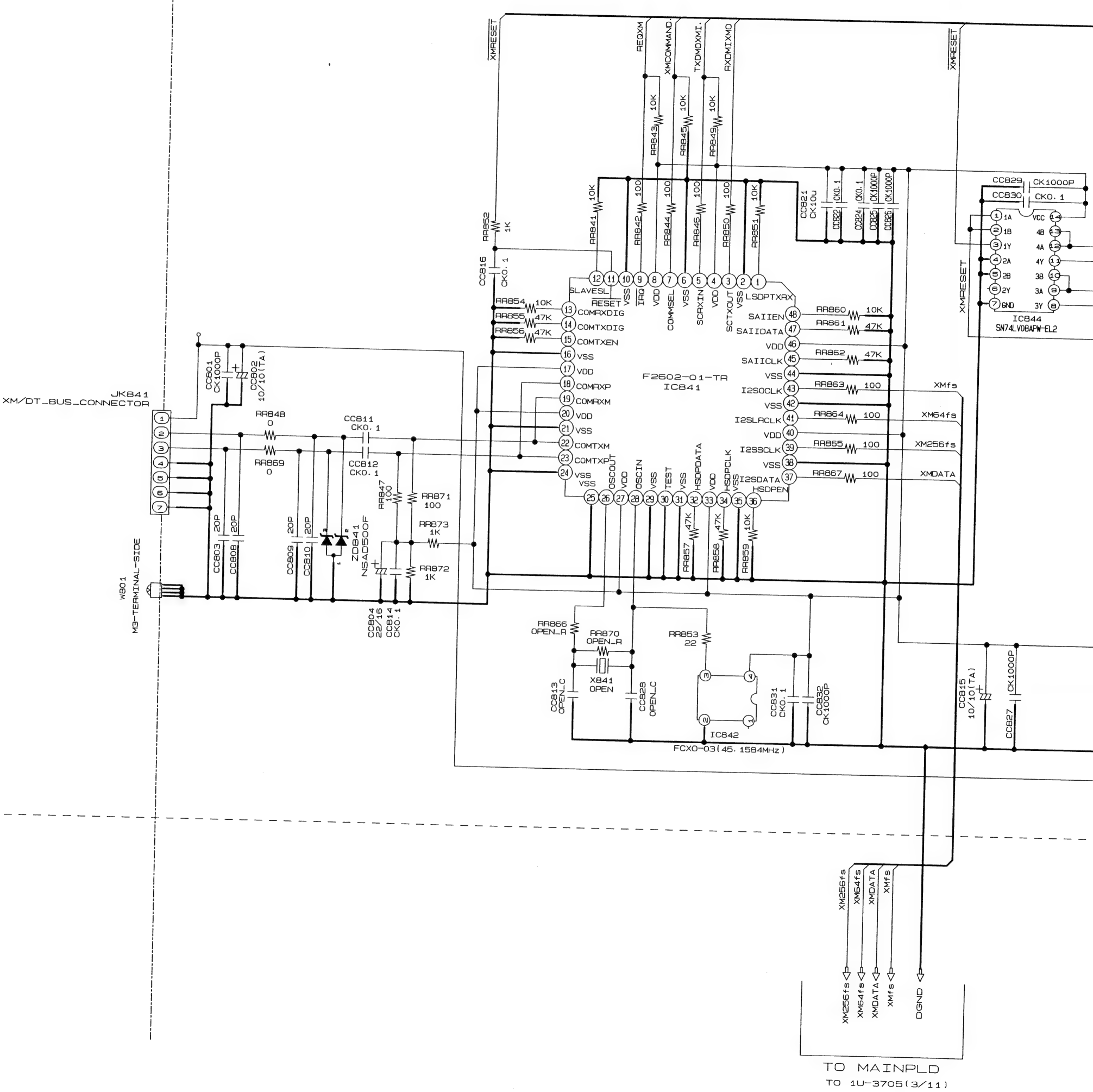


SCHEMATIC DIAGRAMS (20/31)

1U-3704-2 D.LINK UNIT
1U-3704-3 FRONT IN UNIT
1U-3704-4 MIC UNIT
1U-3704-8 DSP REG. UNIT

1 2 3 4 5 6

USA/CANADA MODEL OMLY



XM256fs XM64fs XMDATA XMfs DGND

TO MAINPLD

TO 1U-3705(3/11)

6 7 8 9 10 11

A B C D E F G H

1U-3705
DIGITAL_UNIT
(1/11)

XMRESET

CC829 CK1000P
CC830 CKO. 1

IC844
SN74LV08APW-EL2
1A 1B 1Y 2A 2B 2Y GND
VCC 4B 4A 4Y 3B 3A 3Y

TXDMOXMI.
XMCOMMAND.
REQXM
RXDMIXMO

XMfs
XM64fs
XM256fs
XMDATA

CC815 10/10(TA)
CC827 CK1000P

CY032
3P-ZH(SMD)
XMSCPU3.3V
XM5.3V
XMGND
TO 3702-1
P.SUPPLY UNIT

CC818 CK1000P
CC834 CKO. 1
CC835 CKO. 1

RXDMIXMO
TXDMOXMI
XMCOMMAND
REQXM
XMRESET
MGND
XMSCPU3.3V

TO SUBCPU
TO 1U-3705(5/11)

XMfs
DGND

INPLD
705(3/11)

XM RADIO SECTION(1/1)

SCHEMATIC DIAGRAMS (21/31)
1U-3705 DIGITAL UNIT(1/11)

1U-3705
DIGITAL_UNIT
(2/11)

CW911
11P-SOCKET(9120)
TO 3700-1
MAIN CPU UNIT
DLINK_ON
DL1
DL2
DL3
DLACK.

CW968
6P-SOCKET(9120)
TO 3700-1
MAIN CPU UNIT
D. IN
ZONE2
ZONE3
DREC
DGND
D3.3V
DIN
DZONE2
DZONE3
DREC

CW112
11P-SOCKET(9120)
TO 3700-1
MAIN CPU UNIT
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
DZ3INH

DLINK_ON
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DIRRST1
DIRRST2
DIRRST3
INT1
INT2
INT3
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIR1CKST
DIR2CKST
DIR3CKST

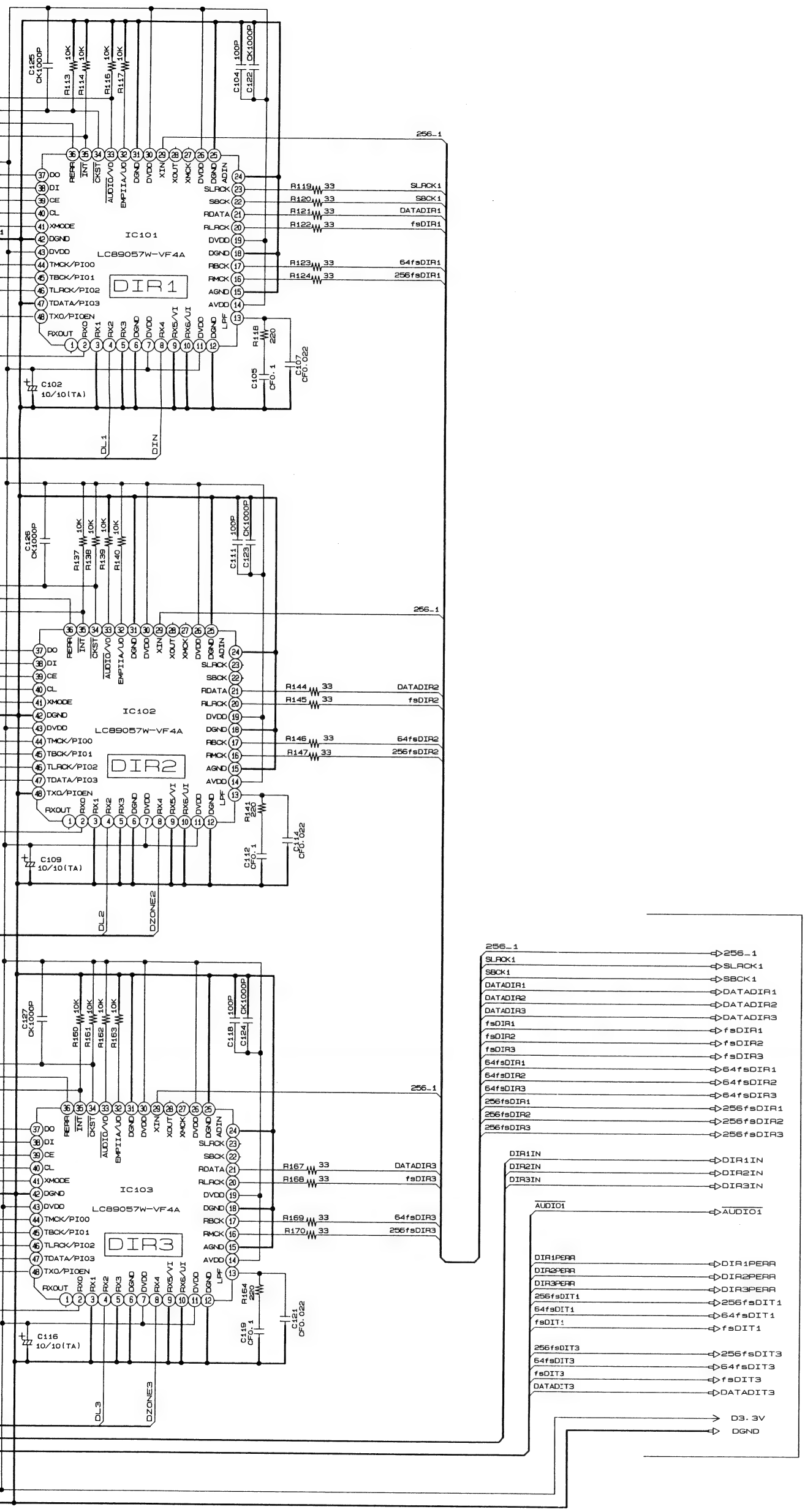
TO SUBCPU
TO 1U-3705(5/11)

AUDIO1
DIR1CKST
DIR1PERR
INT1
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST1
R174 1K
256fsDIT1
64fsDIT1
fsDIT1
DLACK.
DIR1IN
R101 2.2K
R112 3.3K
R102 33
C101 CKO.1
R110 33
C125 CK1000P
R113 10K
R114 10K
R116 10K
R117 10K
C102 10/10(TA)
DL1

DIR2CKST
DIR2PERR
INT2
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST2
R175 1K
DZ3INH
DZ3A
DZ3B
DZ3C
DIR2IN
R125 2.2K
R126 33
C108 CKO.1
R103 OPEN_R
R104 OPEN_R
R105 OPEN_R
R106 OPEN_R
C126 CK1000P
R137 10K
R138 10K
R139 10K
R140 10K
C109 10/10(TA)
DL2

DIR3CKST
DIR3PERR
INT3
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIRRST3
R176 1K
256fsDIT3
64fsDIT3
fsDIT3
DATADIT3
DREC
DIR3IN
R148 2.2K
R149 33
C115 CKO.1
R157 33
C127 CK1000P
R160 10K
R161 10K
R162 10K
R163 10K
C116 10/10(TA)
DL3

DO
DI
CE
CL
XMODE
DGND
DVDD
TMCK/PIO0
TBCK/PIO1
TLRCK/PIO2
TDATA/PIO3
TXO/PIOEN
RXOUT
RXO
RX1
RX2
RX3
PERR
INT
CKST
AUDIO/VO
EMPIIA/UO
LC8905



DIR SECTION(1/1)

SCHEMATIC DIAGRAMS (22/31)

1U-3705 DIGITAL UNIT(2/11)

1 2 3 4 5 6

1U-3705 DIGITAL_UNIT (3/11)

TO DSP
TO 1U-3705(4/11)

TO XM
TO 1U-3705(1/11)

TO DIR
TO 1U-3705(2/11)

IC151
EPM3128ATC144-10

TO SUBCPU
TO 1U-3705(5/11)

TO HDMI
TO 1U-3705(11/11)

6 7 8 9 10 11

A B C D E F G H

(/11)

DSPOUTS1 DSPINCSW1 DSPINFR1

DSPINCSW1 DSPINFR1

D3.3V DGND

TCK

DSPINFS DSPOUT64FS DSPOUTSW1 DSPOUTC1 DSPOUTFR1 DSPOUTF1 DSPINSB1 DSPINS1 DSPINC1 DSPINF1

fsZ3
DATAZ3
64fsZ3

RR140 100 RR144 100 RR105 100 RR154 100 RR156 100 RR158 100 RR160 100 RR182 100 RR183 100 RR181 100

I/O 92 I/O 91 NC 90 TCK 89 I/O 88 I/O 87 I/O 86 GNDI/O 85 I/O 84 I/O 83 I/O 82 I/O 81 I/O 80 I/O 79 I/O 78 GNDI/O 77 VCCI/O 76 NC 75 I/O 74 VCCI/O 73

I/O 72 RR180 100 256fsZ3
I/O 71 RR184 100 DACMUTEZ3
I/O 70 RR177 100 fsZ2
I/O 69 RR178 100 DATAZ2
I/O 68 RR176 100 64fsZ2
I/O 67 100 RR175 256fsZ2
NC 66
I/O 65 RR179 100 DACMUTEZ2
GNDI/O 64
I/O 63 RR197 100 DACMUTE
I/O 62 RR198 100 PCMSW_SBR/DSDSW
I/O 61 RR199 100 fs/DSD_SBR
I/O 60 RR200 100 PCMSBL_C/DSDSBL
GNDI/O 59
VCCINT 58
GNDINT 57
I/O 56 RR201 100 fs/DSD_C
I/O 55 RR202 100 PCMFR_SR/DSDFR
I/O 54 RR203 100 fs/DSD_SR
I/O 53 RR204 100 PCMSL_FL/DSDSL
GNDINT 52
VCCINT 51
VCCI/O 50
NC 49
NC 48
NC 47
NC 46
I/O 45 RR205 100 fs/DSD_FL
I/O 44 RR206 100 64fs/GND1
NC 43
I/O 42 RR207 100 256/64fs1
I/O 41 ADFDATA
I/O 40 64fsAD
I/O 39 fsAD
I/O 38 256fsAD
I/O 37

C151
BATC144-10

GNDI/O 17 I/O 18 NC 19 TMS 20 I/O 21 I/O 22 I/O 23 VCCI/O 24 I/O 25 GNDI/O 26 I/O 27 I/O 28 I/O 29 I/O 30 I/O 31 I/O 32 GNDI/O 33 NC 34 NC 35 NC 36

RR103 100

PLDCLK PLDDATA PLDCSMAIN

SD2 SPDIF SD3 TMS

FB152 EMIFIL(11A121)

CC172 10/10(TA) CK1000P CC173 100P CC174

RR133 100

VDD OUT VSS

IC152 FCXO-03(24.576MHZ)

RR135 0

TCK TDOHDMI TMS TDI

T.P

TDI→TDOMAIN
→TDOHDMI

CX152 7P-FFC(9610SC)

RR217 1K RR218 1K RR219 1K

FB151 ZBFS5105-PT

CC168 100P CC169 CK1000P CC170 CK1000P CC171 100P

D3.3V D3.3V DGND DGND DA+5V DARETGND

CY051 6P-PH(SMT)

TO 1U-3702-1 P.SUPPLY UNIT

DA+5 D/AGND

TO DAC
TO 1U-3705(6/11)

256fsZ2 64fsZ2 DATAZ2 fsZ2 DACMUTEZ2 256fsZ3 64fsZ3 DATAZ3 fsZ3 DACMUTEZ3

TO ZONE DAC
TO 1U-3705(7/11)

DACMUTE PCMSW_SBR/DSDSW fs/DSD_SBR PCMSBL_C/DSDSBL fs/DSD_C PCMFR_SR/DSDFR fs/DSD_SR PCMSL_FL/DSDSL fs/DSD_FL 64fs/GND1 256/64fs1

ADFDATA 64fsAD fsAD 256fsAD

TO DAC
TO 1U-3705(6/11)

MAIN PLD SECTION(1/1)

SCHEMATIC DIAGRAMS (23/31)

1U-3705 DIGITAL UNIT(3/11)

CHEMATIC DIAGRAMS (24/31)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)
DGND
D3.3V

CX937
3P-ZH(SMD)

D201
RB521S-30
DSP1.2V

C232 OPEN
C238 OPEN
RR264 OPEN
C250 100P
C251 10/10(TA)
RR277 4.7K
C201 470/6.3(P-CAP)

DSPAD0 R201 47
WR R202 47
DSPOUT64fs R203 47
DSPOUTSW1 R204 47
DSPAD15 R205 47
ALE R206 47
RD R207 47
DSPAD8 R208 47
DSPINCSW1
DSPOUTSB1 R210 47
DSPINfs R211 47
DSPAD14 R212 47
DSPAD13 R214 47
DSPAD12 R215 47
DSPAD11 R216 47
DSPAD10 R242 47
DSPAD9 R247 47
DSPINFR1
DSPOUTS1 R278 47
R279 47K
R280 47K
R281 47K
R282 47K
DSPIN64fs R283 47
DSPOUTfs R284 47
C254 OPEN_C

R270 47 DSPOUTC1
R271 47
R272 47 DSPOUTFR1
R273 47
R274 47
R275 47 DSPOUTF1
R276 47
R285 47 DSPINSB1
DSPINS1
R268 47

DSPAD1 DSPAD2 DSPAD3 DSPAD4 DSPAD5 DSPAD5

IC201
ADSP-21366SKBCZ

DSPINC1
DSPAD7
DSPINF1
R249 47
R266 47
R267 47
R268 47

R269 10K
C205 100P
C207 100P
C211 100P
C213 100P
C215 100P
C217 100P
C222 CKO.01
C225 CKO.01
C228 CKO.01
C230 CKO.01
C233 CKO.01
C235 CKO.01
C206 100P
C209 100P
C212 100P
C214 100P
C216 100P
C218 100P
C223 CKO.01
C231 CKO.01
C234 CKO.01
C236 CKO.01

C221 10/10(TA)
C224 100P
C227 CKO.01
R250 10

CX201
OPEN
TCK
GND
TDO
VCC
TMS
TRST
EMU0
EMU1
TDI
GND
RR265 OPEN_R
RR267 0
RR271 0
RR273 0
RR275 0
RR276 10K
DTCK
DTDO
DTMS
DTRST
DEMU0
DTDI

FCX0-03L(20.815MHz)
IC202
R236 47
R235 OPEN_R
C203 CKO.01
C208 100P
C210 10/10(TA)
RR260 10K
RR262 10K
R238 47
RR261 10K
RR264 10K
RR263 10K
R252 47K
C255 CKO.01
C256 CKO.01

DTMS DTCK DTDI DTDO DEMU0 DTRST
DSPOSCON
DSPMOSI DSPMISO DSPICS
DSPICLK DSPRST

RD BANK0 RD

DSPAD8 DSPAD7 DSPAD6 DSPAD5 DSPAD4 DSPAD3 DSPAD2 DSPAD1 DSPAD0 DSPAD9 DSPAD7 DSPAD6

AD17 AD18 AD17 AD16 AD15

R237 10K R209 10K R213 10K R239 10K R240 10K R241 10K R243 10K R244 10K
R263 10K
R264 10K

C219 100P C220 CKO.01
IC208
(LH28F160)
LH28F160BJEBTL90
C242 100P C243 CKO.01
IC209
CY7C1049CV

DSPROMRST
R251 0
R255 OPEN_R
R256 10K
R254 10K
WR

AD16 AD15 AD14 AD13 AD12 AD11 AD10 AD9 AD20 AD21 AD19 AD18 AD8

R253 10K
TR201
KRA102S

DSPAD15 DSPAD14 DSPAD13 DSPAD12 DSPAD11 DSPAD10 DSPAD8 DSPAD9 DSPAD10 DSPAD11 DSPAD12 DSPAD0 DSPAD1

BANK1

C246 CKO.01
C247 100P
IC206
TC74VHC573FT
DSPAD0 R217 100 AD8
DSPAD1 R218 100 AD9
DSPAD2 R219 100 AD10
DSPAD3 R220 100 AD11
DSPAD4 R221 100 AD12
DSPAD5 R222 100 AD13
DSPAD6 R223 100 AD14
DSPAD7 R224 100 AD15
ALE

C248 CKO.01
C249 100P
IC207
TC74VHC573FT
DSPAD8 R225 100 AD16
DSPAD9 R226 100 AD17
DSPAD10 R227 100 AD18
DSPAD11 R228 100 AD19
DSPAD12 R229 100 AD20
DSPAD13 R265 100 AD21
DSPAD14 R230 100 AD22
DSPAD15 R231 100 AD23
ALE

C252 CKO.01
C253 100P
IC205
SN74LVC139APWR
R232 100 BANK0
R233 100 BANK1
R234 100 BANK2

6 7 8 9 10 11

A B C D E F G H

TO SUBCPU
TO 1U-3705(5/11)

TO MAINPLD
TO 1U-3705(3/11)

1U-3705
DIGITAL_UNIT
(4/11)

DSP SECTION(1/1)

SCHEMATIC DIAGRAMS (24/31)

1U-3705 DIGITAL UNIT(4/11)

SCHEMATIC DIAGRAMS (25/31)

1 2 3 4 5 6

TO DIR
TO 1U-3705(2/11)

DLINK_ON
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DIRAST1
DIRAST2
DIRAST3
INT1
INT2
INT3
DIRDOUT
DIRDIN
DIRCE
DIRCLK
DIR1CKST
DIR2CKST
DIR3CKST

Z3DACCS
Z2DACCS
ZDACRST
DACRST
DACMS
DACMC
DACMDI
FGAIN

CC253 10/10(TA)
CC254 CK1000P
CC255 CK1000P
CC256 100P
CC257 100P

RE111 10K
RE112 10K
RE114 10K
RE162 33
RE163 33
RE172 33
RE174 33
RE176 33
RE115 10K
RE116 10K

DRECINH
DRECC
DRECB
DRECA
DINC
DINB
DINA

HDMI_SENS
HDMIT_RST
HDMIR_RST
SCDT1

P13/D11 P14/D12 P15/INT3 P16/INT4 P17/INT5 P20 P21 P22 P23 P24 P25 P26 P27 VSS P30 VCC P31 P32 P33 P34 P35 P36 P37 P40 P41

VPP
DIR3CKST
DIR2CKST
DIR1CKST
INT3
INT2
INT1
DIRAST3
DIRAST2
DIRAST1

P12/D10
P11/D9
P10/D8
P07/D7
P06/D6
P05/D5
P04/D4
P03/D3
P02/D2
P01/D1
P00/D0

RE121 10K

DSPRST
DSPROMRST
FLAG0
FLAG1
FLAG2
DSPICS
DSPOSCON

P107/AN7
P106/AN6
P105/AN5
P104/AN4
P103/AN3
P102/AN2
P101/AN1
AVSS
P100/AN0
VREF
AVCC

DSPMISO
DSPMOSI
DSPICLK

RE137 33
RE139 33

P97/SIN4
P96/SOUT4
P95/CLK4

P94/TB4 P93/TB3 P92/SOUT3 P91/SIN3 P90/CLK3 BYTE CNVCS P87 P86 RESET XOUT VSS XIN VCC P85/NMI P84/INT2 P83/INT1 P82/INT0 P81 P80 P77 P76 P75 P74 P73/CTS2

IC251
M30620FCPGP
(SUB)
128K/10K

P42 RE113 10K
P43 INT1
P44 RE117 10K
P45 RE118 10K
P46 WP2
P47 WP1
P50/CE
P51 RE119 10K
P52 RE120 10K
P53 RE203 33 POHPRMV1
P54 RE204 33 P1HPRMV1
P55/EPM
P56 ADC-RST
P57 OSR2
P60/CTS0 RE207 33 REQSOMI
P61/CLK0 CLKSIMO
P62/RXD0 SIMO
P63/TXD0 RE210 33 SOMI
P64/CTS1
P65/CLK1
P66/RXD1 RE213 33
P67/TXD1 RE214 33
P70/TXD2 RE238 0
P71/RXD2 RE237 0
P72/CLK2 DIGITALPOWER

RE101 0
S251 OPEN
SDA.
SCL.
RE102 0
S251 S251
ADOVERL

DLINK_ON
DIRCE RE141 33
DIRDIN RE142 33
DIRDOUT
DIRCLK RE144 33

RE153 OPEN_R
X251 FCX-03(12MHz)
CC251 10P
CC252 10P

RE150 33
RE164 33
RE166 33
RE151 33
RE146 33

PLDCSMAIN
PLDDATA
PLDCLK

VSEL2
VSEL3
ACKSIMO
SLBBDOWN
VSEL4
VSEL0
VSEL1

RE155 10K
TR254 KRC104S

BDOWNSUB
ACKSIMO

TO M
TO 1U-3

PLDCSMAIN
PLDDATA
PLDCLK

VSEL4
VSEL3
VSEL2
VSEL1

VPP
DSPRST
DSPROMRST
DSPOSCON
DSPICLK
DSPICS
DSPMISO
DSPMOSI
FLAG0
FLAG1
FLAG2

TO DSP
TO 1U-3705(4/11)

ADC-RST
OSR2
ADOVERL

DACRST
DACMS
DACMC
DACMDI
FGAIN

ZDACRST
Z2DACCS
Z3DACCS

TO DAC/ADC
TO 1U-3705(6/11)

6 7 8 9 10 11

A B C D E F G H

TO MAINPLD
TO 1U-3705(3/11)

PLDCSMAIN
PLDDATA
PLDCLK
DGND

TO XMRADIO
TO 1U-3705(1/11)

RXDMIXMO
TXDMOXMI
REQXM
XMCOMMAND
XMRESET
MGND
XMSCPU3.3V

TO 1U-3700-1
MAIN CPU UNIT

CW976
7P-SOCKET(9120)

1U-3705
DIGITAL_UNIT
(5/11)

HDMI_SENS
HDMIT_RST
HDMIR_RST
SCDT1
INT1
WP2
WP1
P0HPRMV1
P1HPRMV1
ADC-RST
OSR2
SDA.
SCL.
ADDVERL

IC254
TC74VHCT08FT

IC252
SN74LV08APW-EL2

11P-FFC(9610)
CX252

SCLK
BUSY
DSPBOOT
CE/AVMUTE
EPM/AUTH
CNVSS
GND
RXD
TXD
3.3V
SUBRESET

TR253
KRC104S
RSTSUB

ACKSUB
ACKSIMO
MOSI
SIMO
CLKMO
CLKSIMO

CW101
10P-SOCKET(9120)

CLK
SI
ACK
SUB CPU RST
SUB B.DOWN
REQ
SO
DIGITALPOWER
SCPU5V
MGND

VSEL4
VSEL3
VSEL2
VSEL1
VSEL0
EDSCL
EDSDA

TO BUSSW
TO 1U-3705(11/11)

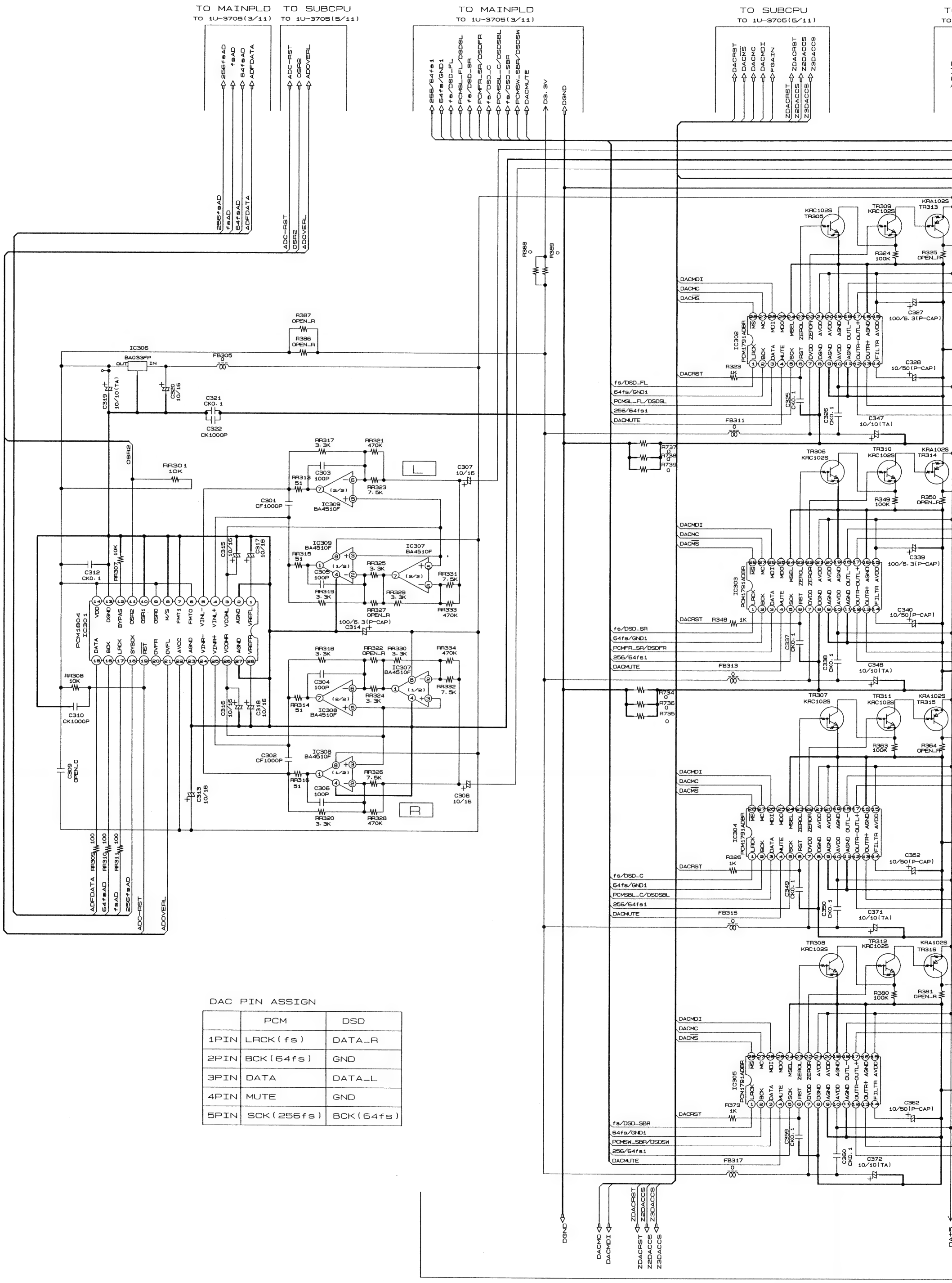
SUB CPU SECTION(1/1)

SCHEMATIC DIAGRAMS (25/31)

1U-3705 DIGITAL UNIT(5/11)

SCHEMATIC DIAGRAMS (26/31)

1 2 3 4 5 6



DAC PIN ASSIGN

	PCM	DSD
1PIN	LRCK(fs)	DATA_R
2PIN	BCK(64fs)	GND
3PIN	DATA	DATA_L
4PIN	MUTE	GND
5PIN	SCK(256fs)	BCK(64fs)

6 7 8 9 10 11

A B C D E F G H

1U-3705 DIGITAL_UNIT (6/11)

TO MAINPLD
TO 1U-3705(3/11)

D+5
D/AGND
R741 0
R742 0

TR309 KRC102S
KRA102S TR313
R324 100K
R325 OPEN_R
D304 KDS184
R307 4.7K
R315 1K
TR304 KRA102S
TR303 KRC102S
TR319 KRC102S
DACMUTE
FGAIN
KRA102S TR320
R322 47K
FB321 0
FB322 0

A+15V
A+15V
A-15V
A-15V
ADGND
ADINL
ADGND
ADINR
ADGND
DASLFLMUTE
DAFRSRMUTE
DASBLCMUTE
DASBRSWMUTE
TO 1U-3700-1 MAIN CPU UNIT
13P-SOCKET(9120) CW137

C329 CF1500P
R309 1.3K
C333 CF390P
R313 100
R301 1.8K
R303 1.8K
R311 1.3K
IC310 SA5532ADR (1/2)
SL
C327 100/6.3(P-CAP)
R305 4.7K
C331 CF390P
C735 CK1000P
C335 10/25(P-CAP)
C336 10/25(P-CAP)
KTC2875B TR317
R319 33K
R320 3.3K
FL
R318 1.1K
R317 OPEN_R
R321 100
IC314 SA5532ADR (2/2)
R306 3.3K
C332 CF560P
IC310 SA5532ADR (2/2)
R315 100K
R304 1.8K
R312 680
R302 1.8K
R310 680
C330 CF1800P
R314 100
C328 10/50(P-CAP)
C347 10/10(TA)
C334 CF560P
R308 3.3K

TR310 KRC102S
KRA102S TR314
R349 100K
R350 OPEN_R
D305 KDS184
R347 1K
R333 3.3K
C341 CF1800P
R335 680
C345 CF560P
R340 100
IC314 SA5532ADR (1/2)
R346 100
R327 1.8K
R337 680
IC311 SA5532ADR (1/2)
R342 OPEN_R
R343 1.1K
R345
R329 1.8K
R341 100K
R344 33K
3.3K
FR
R331 3.3K
C343 CF560P
TR318 KTC2875B
C339 100/6.3(P-CAP)
C340 10/50(P-CAP)
R332 4.7K
C344 CF390P
IC311 SA5532ADR
R330 1.8K
R338 1.3K
R328 1.8K
R336 1.3K
(2/2)
SR
R339 100
C342 CF1500P
C346 CF390P
C348 10/10(TA)
R334 4.7K

TR311 KRC102S
KRA102S TR315
R363 100K
R364 OPEN_R
D306 KDS184
R384 1K
R355 3.3K
C353 CF1800P
R357 680
C357 CF560P
R361 100
R351 1.8K
R359 680
IC312 SA5532ADR (1/2)
SBL
R353 1.8K
R383 3.3K
C355 CF560P
C729 CK1000P
C730 CK0.01
C731 CK0.1
C352 10/50(P-CAP)

DASL
DA-AGND
DAFL
DA-AGND
DAFR
DA-AGND
DASR
DA-AGND
DASBL
DA-AGND
DAC
DA-AGND
DASW
DA-AGND
DASBR
TO 1U-3700-1 MAIN CPU UNIT
15P-SOCKET(9120) CW159

R354 1.8K
R360 680
R352 1.8K
R358 680
IC312 SA5532ADR (2/2)
R362 100
C354 CF1800P
C358 CF560P
C
R356 3.3K
C371 10/10(TA)

TR312 KRC102S
KRA102S TR316
R380 100K
R381 OPEN_R
D307 KDS184
R385 1K
R371 15K
C367 CF150P
C363 CF1500P
R373 1.6K
R377 100
R365 1.8K
R375 1.8K
IC313 SA5532ADR (1/2)
SW
R367 1.8K
C732 CK1000P
R369 15K
C365 CF150P
C733 CK0.01
C734 CK0.1
C362 10/50(P-CAP)
R370 3K
C366 CF560P
R368 1.8K
R376 680
IC313 SA5532ADR (2/2)
R378 100
R366 1.8K
R374 680
C364 CF1800P
C368 CF560P
SBR
R372 3.3K
C372 10/10(TA)

D+5
DACGND
DA+15
DA-15
DAGND

MAIN DAC SECTION(1/1)

SCHEMATIC DIAGRAMS (26/31)

1U-3705 DIGITAL UNIT(6/11)

TO 1U-3705(7/11)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)

TO MAINDAC
TO 1U-3705(3/11)

DGND
256fsZ2
64fsZ2
DATAZ2
fsZ2
DACMUTEZ2
256fsZ3
64fsZ3
DATAZ3
fsZ3
DACMUTEZ3
DACMC
DACMDI
ZDACRST
Z2DACCS
Z3DACCS

XM(ZONE2) DAC

TR351 KRC102S
TR353 KRA102S
TR357 KRC102S
TR359 KRA102S
DACMUTEZ2

D351 KDS184
RR383 1K
RR365 5.1K
RR359 OPEN_R
CC365 CK3300P
CC373 470P
RR351 4.7K
RR352 4.7K
RR366 200
RR367 200
IC353 BA15218F (1/2)
RR377 100
Z2L
RR361 5.1K
CC369 470P
RR362 5.1K
CC370 470P
IC353 BA15218F (2/2)
Z2R
CC377 OPEN
RR353 4.7K
RR354 4.7K
RR368 200
RR369 200
RR378 100
CC366 CK3300P
CC374 470P
RR375 5.1K

256fsZ2
64fsZ2
DATAZ2
fsZ2
ZDACRST
Z2DACCS
DACMC
DACMDI
IC351 AK4385ET
(1 MCLK, 2 BICK, 3 SDTI, 4 LRCK, 5 PDN, 6 CSN, 7 CCLK, 8 CDTI, 9 AOUTR-, 10 AOUTR+, 11 AOUTL-, 12 AOUTL+, 13 VSS, 14 VDD, 15 DZFR, 16 DZFL)
CC355 1/50(P-CAP)

USA/CANADA MODEL ON

TR352 OPEN
TR354 OPEN
TR355 OPEN
TR356 OPEN
DACMUTEZ3

D352 OPEN
RR384 OPEN
RR370 OPEN
RR360 OPEN
CC357 OPEN
RR355 OPEN
RR356 OPEN
RR371 OPEN
RR372 OPEN
IC354 OPEN (1/2)
RR379 OPEN
Z3L
CC352 OPEN
RR363 OPEN
CC354 OPEN
RR364 OPEN
CC356 OPEN
IC354 OPEN (2/2)
Z3R
RR357 OPEN
RR358 OPEN
RR373 OPEN
RR374 OPEN
RR380 OPEN
CC353 OPEN
CC358 OPEN
RR375 OPEN

256fsZ3
64fsZ3
DATAZ3
fsZ3
ZDACRST
Z3DACCS
DACMC
DACMDI
IC352 OPEN
CC351 OPEN

6 7 8 9 10 11

A B C D E F G H

TO MAINDAC
TO 1U-3705(3/11)

1U-3705
DIGITAL_UNIT
(7/11)

) DAC

DA+5
DA+15
DA-15
DAGND
DACGND

RR303
0
RR302
0

D351
KDS184
RR383
1K

CC373
70P
RR377
100
IC353
BA15218F
Z2L

IC353
BA15218F
Z2R
CC377
OPEN.
CC380
OPEN.
RR378
100
CC374
470P

ADA MODEL ONLY

DAZ3MUTE
DAZ2MUTE
DAZ2L
DAZ2R
DAZ3L
DAZ3R

CW113
11P-SOCKET(9120)

TO 1U-3700-1
MAIN CPU UNIT

D352
OPEN
RR384
OPEN
CC357
PEN
RR379
OPEN
IC354
OPEN
Z3L

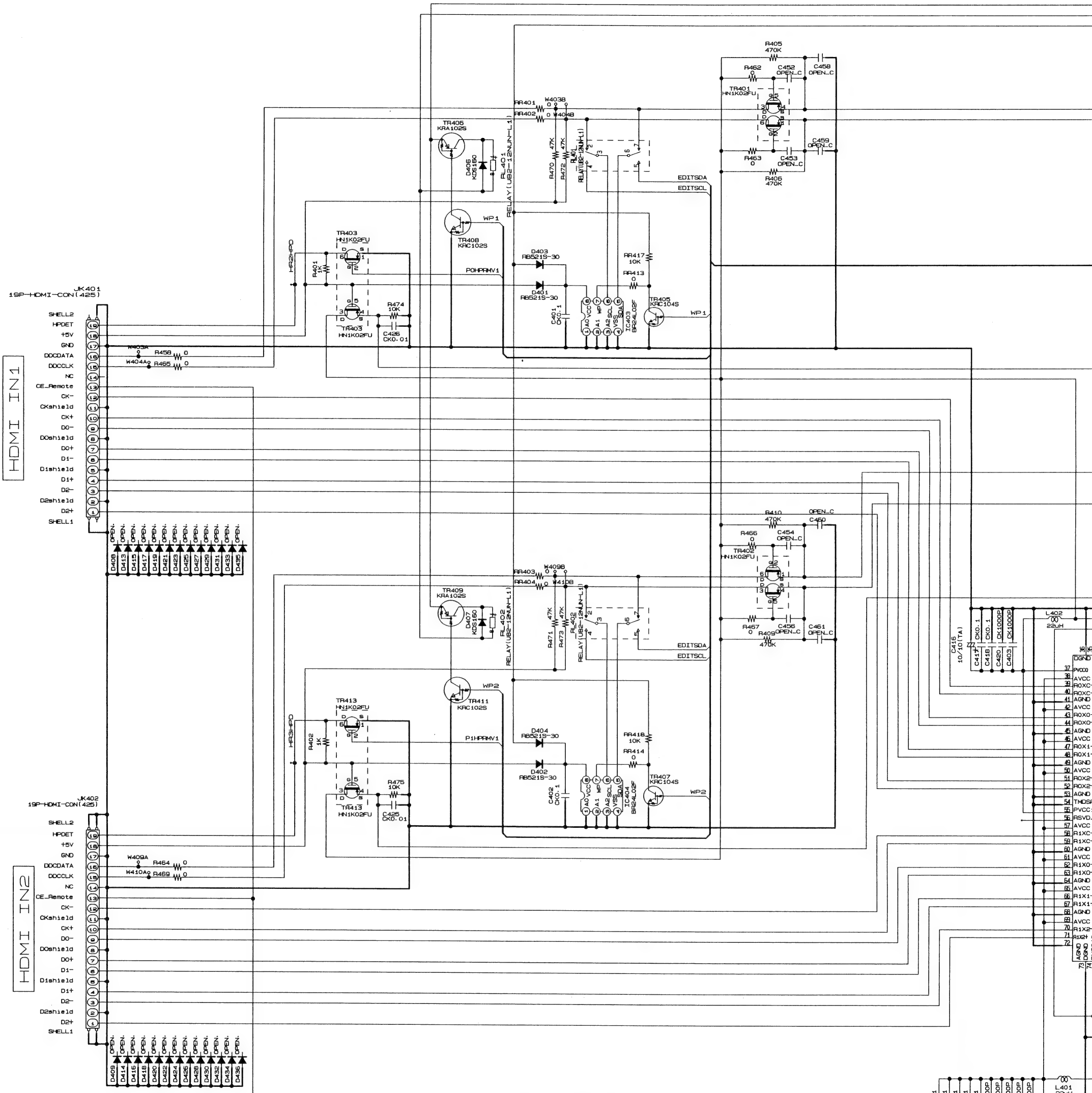
IC354
OPEN
Z3R
RR380
OPEN
CC358
OPEN

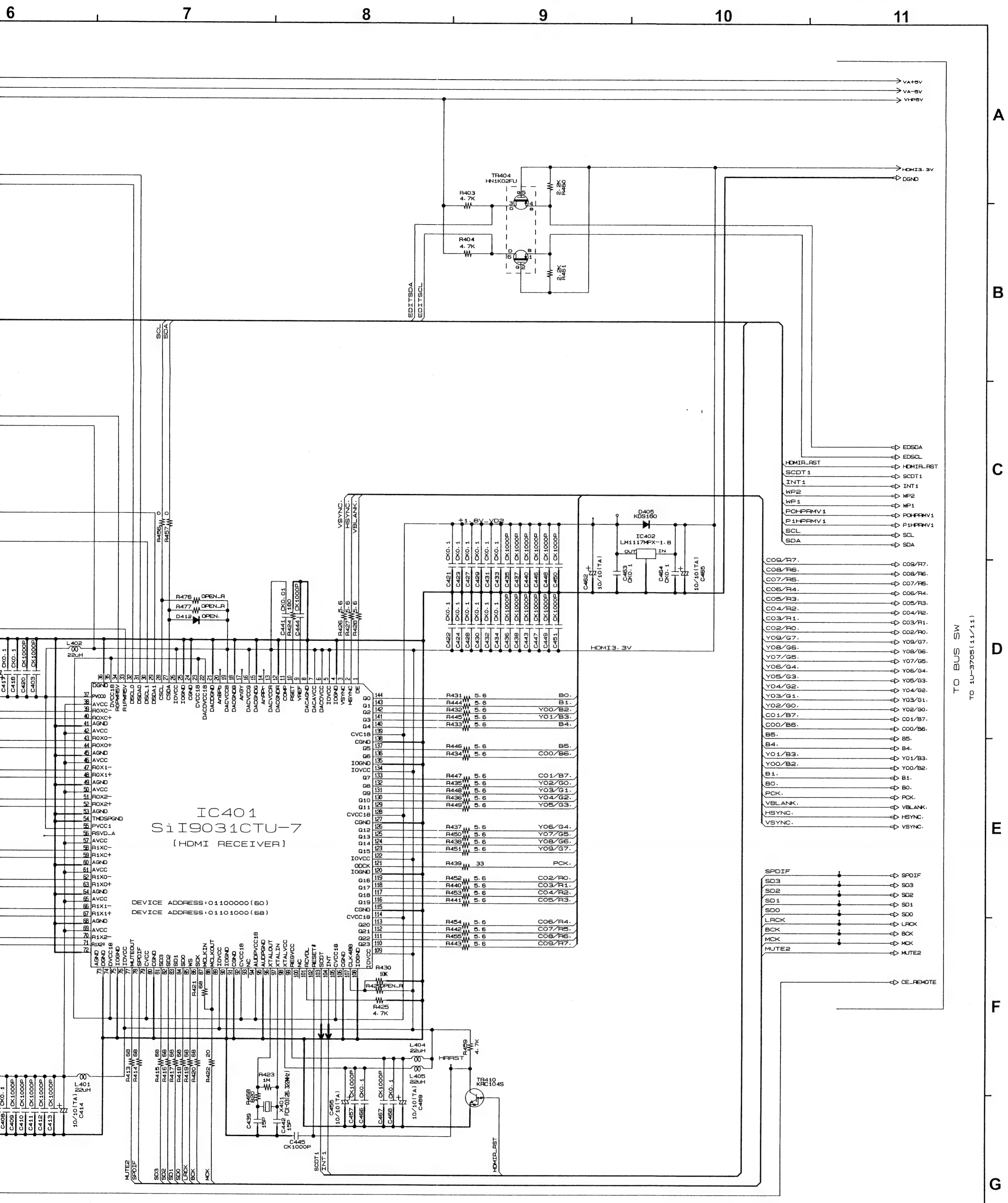
XM(ZONE2/3 DAC) SECTION(1/1)

SCHEMATIC DIAGRAMS (27/31)
1U-3705 DIGITAL UNIT(7/11)

SCHEMATIC DIAGRAMS (28/31)

1 2 3 4 5 6



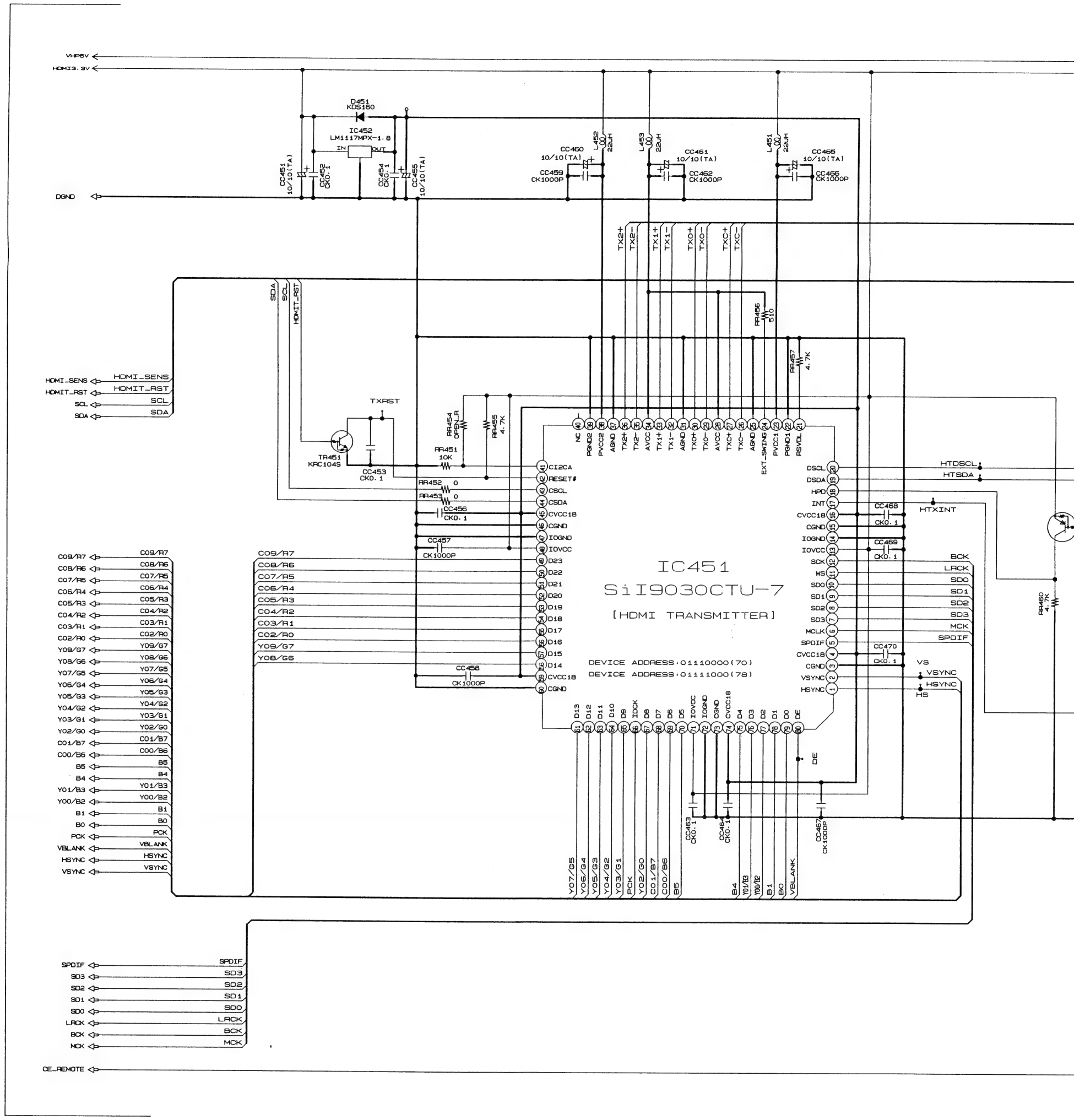


HDMI IN SECTION(1/1)

SCHEMATIC DIAGRAMS (28/31)

1U-3705 DIGITAL UNIT(8/11)

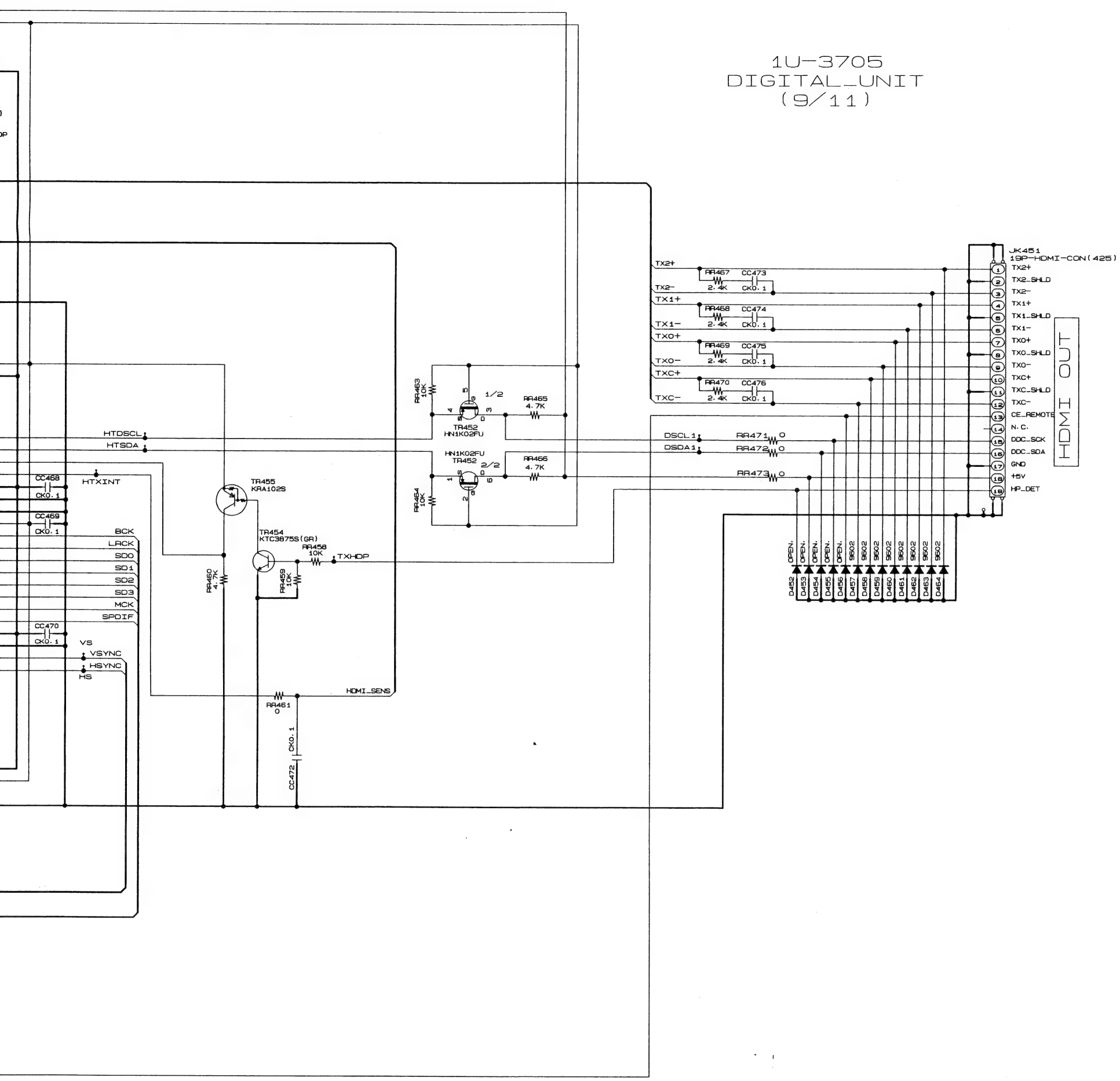
SCHEMATIC DIAGRAMS (29/31)



6 7 8 9 10 11

A B C D E F G H

1U-3705
DIGITAL_UNIT
(9/11)



HDMI OUT SECTION(1/1)

SCHEMATIC DIAGRAMS (29/31)

1U-3705 DIGITAL UNIT(9/11)

SCHEMATIC DIAGRAMS (30/31)

1 2 3 4 5 6

TO BUS SW

TO 1U-3705(11/11)

VA+5V VA-5V HDMI3.3V DGND

TO 3702-1 P.SUPPLY UNIT TO SUPPLY

CY043 4P-PHs (SMT)

HDMI3.3V
HDMI3.3V
HDMIGND
HDMIGND

RA601 0
RA602 0
RA603 0

IC604 PQ018EZ01ZP
VIN VOUT ON/OFF NC GND
C643 100/6.3
C644 CK1000P
C646 CK1000P
C645 10/10(TA)

IC605 BA25BC0FP-E2
IN OUT
C647 CK1000P
C648 CK1000P
10/10(TA) C649

IC607 PQ018EZ01ZP
VIN VOUT ON/OFF NC GND
C654 CK1000P
C655 CK1000P
10/10(TA) C655

IC606 BA033FP
IN OUT
C653 100/6.3
C650 CK1000P
C651 CK1000P
10/10(TA) C652

IC608 BA25BC0FP-E2
IN OUT
C657 CK1000P
C658 CK1000P
10/10(TA) C659

R601 0

C619 CKO.1
C614 10/16(MVB)
C621 CKO.01
C609 CKO.1
C617 10/16(MVB)
C612 CKO.1
C618 10/16(MVB)
C613 CKO.1
R602 2.7K
R644 2.7K
C610 CKO.1
C615 10/16(MVB)
C622 CKO.01
C620 CKO.1

C511 CKO.1
R645 OPEN_R

C536 CKO.1
C539 6P
C540 6P
X501 X-TAL(28.63636MHz)
R610 1M
R635 0
C532 CFO.101
C533 CFO.082
R608 27K
R603 1.8K
CKO.1 C630

IC601
ADV7403BSTZ-110
[VIDEO DECODER]

AGND AGND PVDD PVDD ELPF P20 P0 P1 P2 P3 DGND DVDD XTAL XTAL1 LLC1 DCLK_IN P21 P22 P23 P24 P25 P26 P4 P5 P6
VDOC0 VDOC1 VDOC2R0 VDOC3A1 VDOC4R2 VDOC5R3 VDOC6R4 VDOB0 VDOB1 VDOB2 VDOB3 VDOB4

P7 P27 P8 P9 P10 P11 SDA2 DVDDIO DGND SCLK2 SFL/SYNC_OUT P28 P29 DVDD DGND P12 P13 P14 P15 DVDDIO DGND CS/HS P30(INT) P31 P32
VDOC7R5 VDOB5 VDOC8A6 VDOC9A7 VDOY0 VDOY1 VDOB6 VDOB7 VDOY2G0 VDOY3G1 VDOY4G2 VDOY5G3 VDOHS

AGND(FB) SOG AIN7 AIN1 AIN8 AIN2 AIN9 AIN3 NC AGND CAPY1 CAPY2 AVDD REFOUT CML AGND BIAS CAPC1 CAPC2 AGND AIN10 AIN4 AIN11 AIN5 AIN12
VDIY VDICR VDICV VDICB VDIC

AIN6 SDY RESET DE_IN ALSB SDA SCLK P40 P39 VS_IN HS_IN P38 P37 DGND DVDD P19 P18 P17 P16 P35 P34 FIELD/DE VS P33

C624 C525 C526 C527 C642 CKO.1

R604 5.6K
R607 4.7K
TR601 KRC104S
C607 OPEN_C
C534 CKO.01
C536 CKO.1
C628 C529 CKO.1 CK1000P
R605 100
R606 100
SDA SCL VDRST VDOY9G7 VDOY8G6 VDOY7G5 VDOY6G4 VDOE VDOVS

CC605 CKO.1
CC606 CKO.1
RE684 10K
RE685 10K
RE686 0
CC504 120P
CC502 120P
OPEN IC616
DA NC GND SC VCC
RE687 0
L604 0

C601 CKO.1
C603 CKO.1
C605 CKO.1
C606 10/10(TA)

VDOY0 RA655 33
VDOY1 RA656 33
VDOY2G0 RA657 33
VDOY3G1 RA658 33
VDOY4G2 RA659 33
VDOY5G3 RA660 33
VDOY6G4 RA661 33
VDOY7G5 RA662 33
VDOY8G6 RA663 33
VDOY9G7 RA664 33
LLC1 RA665 33
VDOHS RA666 OPEN_R
VDOVS RA667 OPEN_R
SFL RA669 33

Y
RE631 100
RE628 360
IC614 LT1399CS [1/3]
CC628 100/6.3 1V
560 RE635
OPEN_R RE636
10K RE644
75 RE647
2K RE641

CB
RE632 100
RE629 360
IC614 LT1399CS [2/3]
CC629 100/6.3
560 RE637
OPEN_R RE638
10K RE645
75 RE648
2K RE642

CR
RE633 100
RE630 360
RE634 4.7K
IC614 LT1399CS [3/3]
CC630 100/6.3
560 RE639
OPEN_R RE640
10K RE646
75 RE649
2K RE643

IC614 LT1399CS
V- V+ GND1 GND2
CC624 CC626 100/6.3(P-CAP)
CC625 CC627 CKO.01

Y TK1
RE604 100
RE601 300

C
RE605 100
RE602 300

CVBS TK1
RE606 100
RE603 300

VSDA MGND VSCL

CY181 18P-FFC(9610)
1 VSDA 2 MGND 3 VA+5V 4 VA-5V 5 DOWN-Y 6 VGND 7 DOWN-CB 8 VGND 9 DOWN-CR 10 VGND 11 VEOPY 12 VGND 13 VEOCB 14 VGND 15 VEOCR 16 VGND 17 MGND 18 VSCL

TO COMPONENT

1U-3705
DIGITAL_UNIT
(10/11)

6 7 8 9 10 11

A B C D E F G H

TO 3700-1
MAIN CPU UNIT

CY081
8P-ZH(SMD)

SDA GND SCL GND +5V VDREST VEREST TEREST

TO BUS SW
TO 1U-3705(11/11)

IC610
ADV7320
[VIDEO ENCODER]

DEVICE ADDRESS:1101010*(D4/D5)

IC612
TK15420MTL

IC613
TK15420MTL

IC611
BH7868FS

CY110
11P-FFC8(98105D)
DOWN_Y VGND DOWN_C VGND DOWN_V VGND VEIN_Y VGND VEIN_C VGND VEIN_V

TO S_CVBS

V. CONVERT SECTION(1/1)

SCHEMATIC DIAGRAMS (30/31)

1U-3705 DIGITAL UNIT(10/11)

SCHEMATIC DIAGRAMS (31/31)

1 2 3 4 5 6

TO MAINPLD
TO 1U-3705(3/11)

MUTE2 MCK BCK LRCK SDO SD1 SD2 SD3 SPDIF TDODMAIN TMS TDOHDMI TCK

VA+5V
VA-5V
VHP5V
HDMI3.3V
DGND

R701 0
R702 0
R703 0

EDSDA EDSCL HDMIR_RST SCDT1 INT1 WP2 WP1 P0HPRMV1 P1HPRMV1 SCL SDA

C09/R7. C08/R6. C07/R5. C06/R4. C05/R3. C04/R2. C03/R1. C02/R0. Y09/G7. Y08/G6. Y07/G5. Y06/G4. Y05/G3. Y04/G2. Y03/G1. Y02/G0. C01/B7. C00/B6. B5. B4. Y01/B3. Y00/B2. B1. B0. PCK. VBLANK. HSYNC. VSYNC.

TO HDMI IN
TO 1U-3705(8/11)

SPDIF SD3 SD2 SD1 SD0 LRCK BCK MCK MUTE2

CE_REMOTE

R743 100 TDOBUS1
R711 56 C09/R7
R712 56 C08/R6
R713 56 C07/R5
R714 56 C06/R4
R715 56 C05/R3
R716 56 C04/R2
R717 56 C03/R1
R718 56 C02/R0
R744 100 TMS

C717 CK1000P
C718 CK0.1

C719 10/10(TA)

C723 CK1000P
C724 CK0.1

IC701
LC4064V-75TN100C

VSEL2

PCK R704 56
C01/B7 R705 56
C00/B6 R706 56
B5 R707 56
B4 R708 56
B1 R709 56
B0 R710 56

C720 CK1000P
C721 CK1000P
C722 CK1000P

R745 100

VSEL4 VSEL3 VDOB6. VDOB7. VDOC8R6. VDOC9R7. VDOC7R5. VSEL0 VSEL1 VDOB5. VDOC0. VDOC1. VDOC2R0. VDOC3R1. VDOB0. VDOB1. VDOB4. VDOC4R2.

VSYNC. HSYNC. VBLANK Y00/B2 Y01/B3 Y02/G0 Y03/G1 Y04/G2 Y05/G3 Y06/G4 Y07/G5 Y08/G6 Y09/G7

TDODMAIN TCK

LLC1. VDOC6R4. VDOC5R3.

VDOC9R7. VDOC8R6. VDOC7R5. VDOC6R4. VDOC5R3. VDOC4R2. VDOC3R1. VDOC2R0. VDOC1. VDOC0. VDOB7. VDOB6. VDOB5. VDOB4. VDOB3. VDOB2. VDOB1. VDOB0. VDOY9G7. VDOY8G6. VDOY7G5. VDOY6G4. VDOY5G3. VDOY4G2. VDOY3G1. VDOY2G0. VDOY1. VDOY0. VDOVS. VDOHS. LLC1. VDODE.

VA+5V VA-5V HDMI3.3V DGND

TO CONVERT
TO 1U-3705(10/11)

6 7 8 9 10 11

A B C D E F G H

TO SUBCPU
TO 1U-3705(5/11)

VSEL4 VSEL3 VSEL2 VSEL1 VSEL0
P1HPRMV1 P0HPRMV1 WP1 WP2 INT1 SCDT1 HDMIR_RST EDSCL EDSDA
HDMI_SENS HDMIT_RST
SDA SCL

VHP5V
HDMI3.3V
DGND

IC702
LC4064V-75TN100C

TDOHDMI R746 100 TDOB3. VDOB2. VDOY1. VDOY0. VDOY3G1. VDOY2G0. VDOY5G3. VDOY4G2. VDOHS. VDOVS. VDODE. VDOY6G4. VDOY7G5. VDOY8G6. VDOY9G7. R747 100 TMS

C723 CK1000P C724 CK0.1 C726 CK1000P C727 CK1000P C728 CK1000P

VSYNC. HSYNC. VBLANK. Y00/B2. Y01/B3. Y02/G0. Y03/G1. Y04/G2. Y05/G3. Y06/G4. Y07/G5. Y08/G6. Y09/G7.

R722 R721 R720 R724 R723 R733 R731 R730 R729 R728 R727 R726 R725 56

R748 100

TDOBUS1 TCK

HDMI_SENS HDMIT_RST SCL SDA

C09/R7 C08/R6 C07/R5 C06/R4 C05/R3 C04/R2 C03/R1 C02/R0 Y09/G7 Y08/G6 Y07/G5 Y06/G4 Y05/G3 Y04/G2 Y03/G1 Y02/G0 C01/B7 C00/B6 B5 B4 Y01/B3 Y00/B2 B1 B0 PCK VBLANK HSYNC VSYNC

SPDIF SD3 SD2 SD1 SD0 LRCK BCK MCK

TO HDMI OUT
TO 1U-3705(9/11)

CE_REMOTE

1U-3705
DIGITAL_UNIT
(11/11)

BUS SW SECTION(1/1)

SCHEMATIC DIAGRAMS (31/31)

1U-3705 DIGITAL UNIT(11/11)